

TCEQ Coatings Sources

Current Best Available Control Technology (BACT) Guidelines

Semiconductor Operations

This information is maintained by the Combustion/Coatings Section and is subject to change. Last update 05/2015.

Year	Pollutant	Control Device/Source Type	Minimum Acceptable Control	Control Efficiency or Details
2015	Organic Compounds	Oxidation (i.e., thermal control device with or without rotor concentrator)	Collecting and venting organic emissions to an add-on control device may be required if organic emissions are greater than 50 tpy (site-wide).	The thermal control device must achieve an efficiency of at least 95% or greater or an organic exhaust concentration of 20 ppmv or less.
		Adsorption (i.e., carbon adsorption)	Collecting and venting organic emissions to an add-on control device may be required if organic emissions are greater than 50 tpy (site-wide).	The adsorption device must achieve an efficiency of at least 90% or greater or an organic exhaust concentration of 20 ppmv or less.
	Inorganic Compounds	Absorption (i.e., scrubber)	Collecting and venting inorganic emissions to an add-on control device may be required if inorganic emissions are greater than 1 tpy (site-wide).	The absorption device must achieve an efficiency of at least 99% or greater or an inorganic exhaust concentration of 20 ppmv or less.
	HAPs		For all major sources of HAPs, compliance with the applicable emissions standards in 40 CFR 63, Subpart BBBBB.	

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Year	Pollutant	Control Device/Source Type	Minimum Acceptable Control	Control Efficiency or Details
2015	Organic Compounds, Inorganic Compounds, and Exempt Solvents	Fixed Roof Storage Tank	Painted white. Submerged fill pipes required for tanks over 1000 gallon capacity for contents with a true vapor pressure at storage conditions ≥ 1.5 psia. Vapor balanced loading may also be required to achieve acceptable off property impacts.	Submerged fill pipe must meet the requirements specified in 30 TAC §101.1(96). Vapor balanced loading should reduce emissions by at least 95% when using leak tested trucks.
		Process Piping	The use of hard piping to the greatest extent practicable.	There shall be no leaks as determined by visual, audible or olfactory inspections.
			Implementation of a soiled shop towel management system.	A soiled shop towel management system should consist of placing soiled shop towels in resealable bags or the placement of the soiled shop towels in closed containers that are located near the process equipment or workstations.
			Good housekeeping for spills.	
			Storage of fresh and waste materials in closed containers until recycled or removed from the site.	