

Guidelines for Reporting Abrasive Blasting Operations Emissions – December 2014

For abrasive blasting operations, the facility must report particulate matter (PM) emissions based on the total amount of blasting medium and emissions from fuel burned in the portable Internal Combustion Engine (ICE). If the abrasive blasting work is done by portable equipment which is registered under the CARB Registration Program, the facility is exempt from reporting under AER program. **Table 1** lists the uncontrolled and controlled Emission Factors (EF), for typical abrasives which can be used to estimate the PM emissions. The emission factors are provided in pounds of PM per ton of abrasive material (lbs/ton). The uncontrolled EFs are used for outdoor dry blasting. The controlled EFs are provided for different types of controlled blasting work such as wet blasting, indoor blasting in abrasive blasting housing/cabinet, or blasting in a room which is vented to an Air Pollution Control Device such as filter or bag house.

Table 1 - Emission Factors for Abrasive Blasting Operation

Abrasive Material	Abrasive Blasting PM Emission Factors (lb/ton)			
	Uncontrolled	Controlled		
	Outdoor Dry Material (0% reduction)	Wet (50% reduction)	Indoor (Housing, Cabinet, etc.) (85% reduction)	Indoor (with Baghouse) (99% reduction)
Sand	82.00	41.00	12.30	0.82
Grit, Slag/Other Materials	19.68	9.84	2.95	0.20
Shot	8.20	4.10	1.23	0.08