Abrasive Blasting-Source 03

	lb/hr		120000	
	cfm		5280	
PM	Em. Factor*	unit	lb/hr	ton/yr
uncontrolled	7.6	lb/ton of grit	456.0	1997.3
controlled	0.152	lb/ton of grit	9.12	39.95
	Table 2 PM		33.3	145.854
	0.25 gr/dscf		11.31	49.56
	0.02 gr/dscf		0.91	3.96

Uncontrolled emission factor is from San Diego County Air Pollution Control District data for steel grit abrasive blasting. Controlled emissions are based on 98% control efficiency for cartridge filters (Filter data sheet estimates up to 99% control efficiency)
https://www.sdapcd.org/content/sdc/apcd/en/engineering/Permits/Engineering_Emissions_Inventory/Abrasive_Blasting_Calc.html

Spray Coating-Source 01 — transfer efficiency 0.9

PM emissions

material	Gal per day	density	solids	pm lb/hr	PM TPY	VOC lb/gal	VOC TPY
primer	2.3077	11.44	0.7549	0.199	0.87	2.8	2.83
thinner	0.2538	7.26	0	0	0.0	7.23	0.80

Welding -Source 02

PM emissions

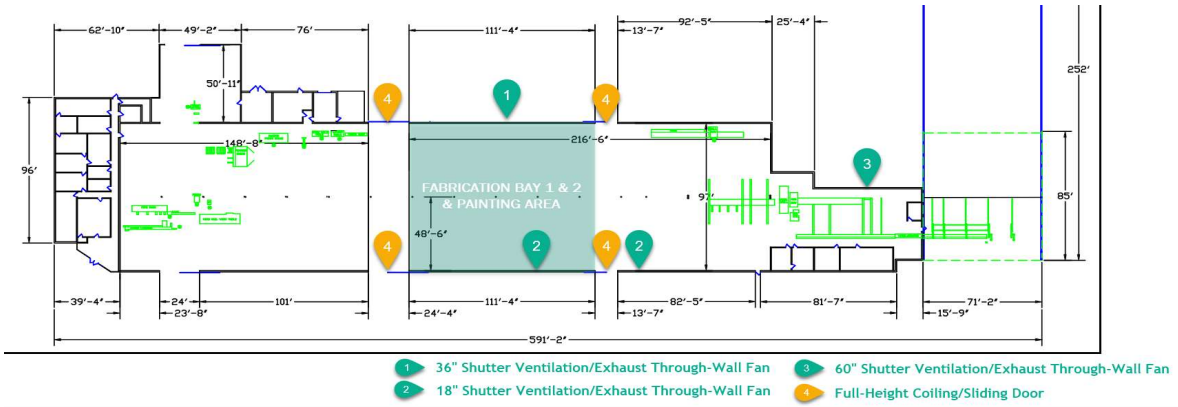
material	Max usage (lb/hr)	Max Usage (lb/yr)	PM factor (lb/1,000 lbs)	pm (lb/hr)	PM TPY
ER70S-6	1.8683	16366.308	5.2	0.0097	0.04

Allowable PM Emissions Sources 01 and 02 — 3.63

Table 2 value	0.061			
cfm*	1736			
0.25	3.720	lb/hr	16.29	ton/year
0.02	0.298	lb/hr	1.30	ton/year

*This value is an estimate. The items being coated and welded are structural steel elements that are too large to fit in an enclosure and emissions are therefore uncontrolled. Welding and spray coating takes place in a large shop with exhaust fans placed near the coating area for ventiliation. There are two 18" diameter fans and one 36" diameter in the immediate vicinity. A review of comparable diameter in wall exhaust fans in the Grainger catalogue found the minimum cfm for available 18" fans to be 1736 cfm and 36" fans to be 8,860 cfm. A minimum airflow of 1736 cfm is estimated.

Diagram of facility with spray coating area highlighted



<--- Photo of spraying area