

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7793A

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
GP-I	Group I Emissions	PM ₁₀	0.017	0.009
PB01-DC-1	PB01 Baghouse No. 1 (5 and 6) 0.0003	PM ₁₀		0.0006
PB01-DC2	PB01 Baghouse No. 2 (5 and 6) 0.0003	PM ₁₀		0.0006
PB02-DC1	PB02 Baghouse No. 1 (5 and 6) 0.0026	PM ₁₀		0.0049
PB02-DC2	PB02 Baghouse No. 2 (5 and 6) 0.0026	PM ₁₀		0.0049
P&G1-DC2	P&G Dust System No. 1 (5 and 6) 0.0015	PM ₁₀		0.0029
P&G2-DC	P&G Dust System No. 2 (5 and 6) 0.0015	PM ₁₀		0.0029
GP-II	Group II Emissions	PM ₁₀	0.001	0.0004
PB01-CVS	PB01 Vacuum System (7 and 8) 0.0001	PM ₁₀		0.0003
PB02-CVS	PB02 Vacuum System (7 and 8) 0.0003	PM ₁₀		0.0006
PBO-FLARE	PBO FLARE	NO _x	0.81	1.02

		CO	1.60	2.03
		Acetone	7.67	4.03
Tank A	Storage Tank A (4)	Acetone	9.15	0.39
Tank B	Storage Tank B (4)	Acetone	0.58	0.36
TLOAD 1	Truck Loading Area No. 1 (4)	Acetone		0.005
	0.02			
PBO-PC	PBO Piping Components (4)	Acetone		0.57
	2.51			

Permit No. 7793A
Page 2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
R&D-FH1	R&D Lab Fume Hood	PM ₁₀	0.66	0.03
		VOC	5.23	0.68
DP-B-BAGH	Matrix Binder Furnace	PM ₁₀	<0.00001	
	<0.00001			
DP-P-BAGH	Matrix Powder Baghouse	PM ₁₀	0.002	0.0003
		VOC	<0.00001	
	<0.00001			

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - VOC - volatile organic compounds
 - NO_x - nitrogen oxide
 - CO - carbon monoxide
- (4) Fugitive emissions are an estimate only.
- (5) Group I Emission Point.
- (6) Emission rate for specified emission point is an estimate, but total emissions from all Group I emission points is limited to quantity reflected for emission point GP-I.
- (7) Group II Emission Point.
- (8) Emission rate for specified emission point is an estimate, but total emissions from all Group II emission points is limited to quantity reflected for emission point GP-II.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule and parameters:

Authorized Operating Hours: 24 Hrs/day 7 Days/week 50 Weeks/year 8,760 Hrs/yr

Process/Operation
Annual Throughput

Hourly Throughput

Matrix Binder Furnace Tons	170	Lbs	215
Infiltrated Powder Line	1,850	Lbs	

335 Tons

Hot Press Powder Line
Tons

1,320 Lbs

15

Permit No. 7793A
Page 2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

<u>Process/Operation</u> <u>Throughput</u>	<u>Hourly Throughput</u>	<u>Annual</u>
Powder Blending Line:		
Acetone Use Tons	1,000 Lbs	504
Powder Use Tons	2,225 Lbs	1,158
R and D Lab:		
Solvent Use Lbs (Acetone and/or Hexane)	6.0 Lbs	1,360
Powder Use Lbs	70 Lbs	5,750

Dated_____