

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. T-17742

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)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
1	Oven No. 1	PM <sub>10</sub>	0.034	0.15
		NO <sub>x</sub>	0.44	1.93
		CO	0.37	1.62
		SO <sub>2</sub>	0.003	0.011
		VOC	0.024	0.105
2	Oven No. 2	PM <sub>10</sub>	0.011	0.05
		NO <sub>x</sub>	0.146	0.64
		CO	0.12	0.54
		SO <sub>2</sub>	0.001	0.004
		VOC	0.008	0.04
5	Paint Booths 4A and 4B	PM <sub>10</sub> (6)	0.0003	0.0013
		VOC (7)	0.34	1.49
6 and 9	Conveyor Oven	PM <sub>10</sub>	0.015	0.07
		NO <sub>x</sub>	0.20	0.86
		CO	0.16	0.72
		SO <sub>2</sub>	0.001	0.005
		VOC	0.01	0.05
7	Oven No. 6	PM <sub>10</sub>	0.018	0.08
		NO <sub>x</sub>	0.24	1.07
		CO	0.21	0.90
		SO <sub>2</sub>	0.001	0.006
		VOC	0.013	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
8	Oven No. 5	PM <sub>10</sub>	0.018	0.08
		NO <sub>x</sub>	0.23	1.03
		CO	0.20	0.86
		SO <sub>2</sub>	0.001	0.006
		VOC	0.013	0.06
10	Strip Tank	NaOH	<0.001	<0.004
11	ISPA Oven	PM <sub>10</sub>	0.06	0.26
		NO <sub>x</sub>	0.09	0.37
		CO	0.08	0.33
		SO <sub>2</sub>	0.003	0.01
		VOC	0.027	0.12
12	Rotor Oven	PM <sub>10</sub>	0.034	0.15
		NO <sub>x</sub>	0.44	1.93
		CO	0.37	1.62
		SO <sub>2</sub>	0.003	0.01
		VOC	0.024	0.11
14	Rotor Blast Room (8)	PM <sub>10</sub>	1.54	6.76
15	Metal Spray Booths (5 and 9) 1A and 1B	PM <sub>10</sub>	0.00007	0.0003
16	Metal Spray Booths (5 and 9) 1C and 1D	PM <sub>10</sub>	0.00007	0.0003
17	Walk-In Blast Room	PM <sub>10</sub>	0.56	2.44
18	Metal Spray Booths (5 and 9) 1E and 1F	PM <sub>10</sub>	0.00007	0.0003
FUG	Building Fugitives (4)	PM <sub>10</sub> (6)	0.00002	0.0001
		VOC (7)	0.05	0.22

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- (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) PM<sub>10</sub> - 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<sub>x</sub> - nitrogen oxide  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
NaOH - sodium hydroxide
- (4) Fugitive emissions are an estimate only.
- (5) The PM<sub>10</sub> may contain chromium, nickel, aluminum, tungsten, copper, zirconium, yttria, molybdenum, titanium, iron, cobalt, and/or other compounds as reflected by the approved metal powder list.
- (6) The PM<sub>10</sub> may consist of aluminum, chromium, strontium, phosphate, carbon, silicon, and/or titanium.
- (7) The VOC may contain cellosolve acetate, N-methylpyrrolidone, ethyl acetate, polytetrafluorethylene, and/or other compounds as reflected by the Material Safety Data Sheets for the approved paints.
- (8) The PM<sub>10</sub> emission rate shall not exceed 0.000035 pound per hour when metal spraying is conducted in the rotor blast room. Annual emissions of PM<sub>10</sub> from metal spraying shall not exceed 0.0006 ton from all sources. **(10/99)**
- (9) The maximum hourly spray rate for any one gun is 9 pounds, but the spray rate from all six booths shall not exceed 36.0 pounds per hour. Furthermore, the emissions from all six metal spray booths shall not exceed 0.0006 tons per year.

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

Maximum Authorized Spray Rate

Metallizing Spray Guns: 9.0 lbs/hr for any one gun with a total of 36.0 pounds per hour for all six guns

Paint Spray Guns: 9.9 lbs/hr for all paints/coatings, except Booth 4F Gun may spray fluoropolymer resins at 30.0 lbs/hr when spraying small components inside the booth and 200 lbs/hr when spraying the interior of large vessels with the vessel inside the booth.

Authorized Operating Hours: 24 hrs/day 7 days/wk 52 wks/yr 8,760 hrs/yr

Dated May 18, 2001