

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3342 and PSD-TX-838

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>	
			lb/hr	TPY
S-1	Sulfuric Acid Tank No. 1 Scrubber No. 1 Stack	H ₂ SO ₄ /HNO ₃	0.07	0.29
S-2	Sulfuric Acid Tank No. 2 Scrubber No. 2 Stack	H ₂ SO ₄ /HNO ₃	0.09	0.38
S-3	Sulfuric Acid Tank No. 3 Scrubber No. 3 Stack	H ₂ SO ₄ /HNO ₃	0.09	0.38
S-4	Zinc Phosphate/Nitric Acid Tank No. 1 Scrubber No. 4 Stack	HNO ₃	0.02	0.08
		Zn ₃ (PO ₄) ₂	0.05	0.20
		Zinc Nitrate	0.03	0.06
S-5	Sulfuric Acid Tank No. 5 Scrubber No. 5 Stack	H ₂ SO ₄ /HNO ₃	0.17	0.77
S-6	Zinc Phosphate/Nitric Acid Tank No. 2 Scrubber No. 7 Stack	HNO ₃	0.02	0.08
		Zn ₃ (PO ₄) ₂	0.05	0.20
		Zinc Nitrate	0.03	0.06
AF-1	Annealing Furnace No. 1 (4)	TSP	0.03	0.15
		PM ₁₀	0.03	0.15
		NO _x	0.72	3.14
		SO ₂	<0.01	<0.01
		CO	0.18	0.78
		VOC	0.04	0.13

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AF-2	Annealing Furnace No. 2 (4)	TSP	0.03	0.15
		PM ₁₀	0.03	0.15
		NO _x	0.97	4.25
		SO ₂	0.02	<0.01
		CO	0.24	1.06
		VOC	0.04	0.17

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
AF-3	Annealing Furnace No. 3 (4)	TSP	0.04	0.17
		PM ₁₀	0.04	0.17
		NO _x	1.09	4.76
		SO ₂	0.02	<0.01
		CO	0.27	1.19
		VOC	0.04	0.20
BF-1	Batch Furnace (4)	TSP	0.02	0.10
		PM ₁₀	0.02	0.10
		NO _x	0.61	2.68
		SO ₂	<0.01	<0.01
		CO	0.15	0.67
		VOC	0.02	0.11
LUBFUG	Lube Tank Fugitives (4)	Sodium Stearate	0.62	2.7
CAUFUG	Caustic Cleaner Tank	Caustic Soda/ Na ₂ SiO ₃	0.45	1.94
NEUFUG	Neutralizer Tank Fugitives (4)	Sodium Nitrite/ Sodium Borate	0.17	0.75
SP-1	Paint Spray Fugitives (4)	VOC	1.14	5.00
G-1	Electric Arc Furnace Scrubber Stack	TSP	6.50	27.30
		PM ₁₀	6.50	27.30
		CO	696.00	2925.00
		Pb	0.1300	0.546
G-15	Electric Arc Furnace	TSP	6.29	26.40

G-13	Baghouse Stack	PM ₁₀	6.29	26.40
		CO	696.00	2925.00
		Pb	0.1258	0.528
	Roofline Fugitive (4)	TSP	---	14.30
		PM ₁₀	---	14.30
		NO _x	---	5.60
		CO	---	1.10
		Pb	---	0.114

- (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) TSP - total suspended particulate matter including PM₁₀
PM₁₀ - particulate matter less than 10 microns in diameter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
Na₂SiO₃ - sodium metasilicate
SO₂ - sulfur dioxide
CO - carbon monoxide
Pb - lead
H₂SO₄ - sulfuric acid
HNO₃ - nitric acid
caustic soda - sodium hydroxide
Zn₃(PO₄)₂ - zinc phosphate
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule, maximum pipe throughput rate and maximum steel production rate:

24 Hrs/day 7 Days/week 52 Weeks/year or Hrs/year

Maximum pipe throughput rate: 169,000 Tons/year

Steel Production Rate: Tons/hour 120 Tons/year 650,000

Dated_____

