

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1147A

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
18	Hard Lead Ventilation (5) Baghouse Stack	PM	0.98	3.38
		PM ₁₀	0.98	3.38
		Pb	0.07	0.29
		NO _x	11.28	0.60
		SO ₂	0.04	0.17
		CO	8.26	4.26
		VOC	1.65	4.85
		Trace Compounds	0.01	0.01
21	Soft Lead Refining (5) and Feed Dryer Baghouse Stack	PM	1.58	5.99
		PM ₁₀	1.58	5.99
		SO ₂	5.33	12.49
		NO _x	11.92	9.33
		CO	26.44	64.14
		Pb	0.25	0.73
		VOC	15.39	48.23
		HCl	0.18	0.74
		H ₂ SO ₄	0.27	1.17
		Trace Compounds	0.01	0.01
22	Specialty Alloy (5) Baghouse Stack	PM	1.28	4.51
		PM ₁₀	1.28	4.51
		Pb	0.02	0.08
		NO _x	11.03	0.58
		SO ₂	0.42	1.00
		CO	8.08	5.00
		VOC	1.62	4.75
		Trace Metals	0.04	0.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
23	Refining Building Vacuum Stack	PM	0.21	0.56
		PM ₁₀	0.21	0.56
		Pb	0.03	0.11
37	Reverberatory/Blast (5) Furnaces Fugitives Baghouse Stack	PM	8.21	30.49
		PM ₁₀	8.21	30.49
		Pb	0.09	0.39
		NO _x	0.48	2.08
		SO ₂	21.68	68.31
		CO	8.75	28.32
		VOC	15.16	45.81
		HCl	0.21	0.92
		H ₂ SO ₄	2.82	12.34
		SiO ₂	0.02	0.03
		Trace Metals	0.01	0.04
38	Reverberatory/Blast (5) Furnaces Metallurgical Scrubber Stack	PM	4.63	19.12
		PM ₁₀	4.63	19.12
		Pb	0.20	0.89
		NO _x	14.60	59.53
		SO ₂	445.59	1199.51
		CO	298.58	1190.35
		VOC	7.61	33.32
		Cd	0.02	0.05
		SiO ₂	0.09	0.41
		HCl	0.74	3.23
		H ₂ SO ₄	4.96	21.74
		Trace Metals	0.04	0.10
45	Raw Material Storage/Shredder Baghouse Stack	PM	2.85	10.57
		PM ₁₀	2.85	10.57
		Pb	0.25	1.10
48	Battery Breaker Scrubber Stack	PM	2.45	4.68
		PM ₁₀	2.45	4.68

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			lb/hr	TPY
		Pb	0.06	0.13
		H ₂ SO ₄	0.06	0.14
48FUG	Battery Breaker Scrubber	H ₂ SO ₄	0.05	0.22
51	Sodium Bicarbonate Filter Vent	PM	0.17	0.75
		PM ₁₀	0.17	0.75
54	Soft Lead Kettle Heating Stack	PM	0.07	0.32
		PM ₁₀	0.07	0.32
		VOC	0.03	0.14
		NO _x	0.60	2.63
		CO	0.50	2.21
		SO ₂	<0.01	0.02
55	Hard Lead Kettle Heating Stack	PM	0.07	0.32
		PM ₁₀	0.07	0.32
		VOC	0.03	0.14
		NO _x	0.60	2.63
		CO	0.50	2.21
		SO ₂	<0.01	0.02
44	Raw Material Storage (4)	PM	1.43	5.72
		PM ₁₀	0.72	2.86
		Pb	0.03	0.11
10 and 35	Furnace Fugitives (4) (6)	PM	1.83	8.00
		PM ₁₀	1.83	8.00
		Pb	0.08	0.37
		Cd	0.01	0.04
		Trace Metals	<0.01	<0.04
36	Refining/Casting (4)	PM	0.03	0.10
		PM ₁₀	0.03	0.10
		Pb	<0.01	<0.04
		Trace Metals	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
52	Slag Handling (4)	PM	0.07	0.31
		PM ₁₀	0.07	0.31
		Pb	0.01	0.05
		Trace Metals	<0.01	<0.01
41, 42, and 43	Vehicle Traffic (4) (6)	PM	--	0.63
		PM ₁₀	--	0.31
		Pb	--	0.17
53	Material Handling (4)	PM	1.00	0.41
		PM ₁₀	0.45	0.14
		Pb	0.13	0.05
39	Slag Fixation Baghouse Stack	PM	1.71	3.12
		PM ₁₀	1.71	3.12
		Pb	0.12	0.11
		Al	0.05	0.10
49	Reagent Silo No.1 Baghouse Stack	PM	0.36	0.38
		PM ₁₀	0.36	0.38
50	Reagent Silo No. 2 Baghouse Stack	PM	0.36	0.38
		PM ₁₀	0.36	0.38

(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 - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- Pb - lead and lead compounds as lead
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
 - HCl - hydrochloric acid mist/fumes
 - H₂SO₄ - sulfuric acid mist/fumes
 - SiO₂ - silica
 - Cd - cadmium and cadmium compounds as cadmium
 - Al - aluminum
- (4) Fugitive emissions are an estimate only.
- (5) Trace compounds and metals are addressed in the permit file.
- (6) Emission rate (ER) values are the total for all listed EPNs, i.e. not an individual ER for each EPN.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule and maximum production rates:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated December 28, 2010