EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5466D

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 Baghouse Stack	TSP	1.29	5.67
		PM_{10}	1.29	5.67
		Pb	0.52	2.26
		NO_x	0.14	0.61
		SO_2	<0.01	<0.01
		CO	0.15	0.66
		As	0.001	0.005
		Sb	<0.01	<0.01
		Sn	<0.01	<0.01
		Al	0.01	0.04
		Cd	<0.01	<0.01
		Na	0.01	0.04
21	Soft Lead/Casting Baghouse and Feed Dryer Scrubber Stack	TSP	3.64	15.96
		PM_{10}	3.64	15.96
		Pb	1.46	6.38
		NO_x	0.14	0.61
		SO_2	<0.01	<0.01
		CO	0.15	0.66
		As	0.001	0.005
		Sb	<0.01	<0.01
		Sn	<0.01	<0.01
		Al	0.01	0.04
		Cd	<0.01	<0.01
		Na	0.01	0.04
		H_2SO_4	0.10	0.44
22	Specialty Alloy Vent. Baghouse Stack	TSP	0.75	3.29
		PM_{10}	0.75	3.29
		Pb	0.30	1.31
		NO_x	0.14	3.66
		SO_2	<0.01	<0.01

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	CO	0.15	0.36
	As	0.001	0.005
	Sb	0.003	0.01
	Sn	<0.01	<0.01
	Al	0.01	0.01
	Cd	<0.01	<0.01
	Na	0.01	0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
37	Reverb./Blast Furnaces Fugitives Baghouse Stack	TSP	8.55	37.45
		PM_{10}	8.55	37.45
		Pb	1.64	7.20
		NO_x	10.50	45.99
		SO_2	462.00	2024.00
		CO	643.50	2818.53
		VOC	39.45	172.79
		As	0.03	0.13
		Sn	0.13	0.57
		Sb	0.03	0.13
		Al	0.28	1.23
		Cd	0.03	0.13
		Na	0.86	3.77
38	Reverb./Blast Furnaces Scrubber Stack	TSP	5.50	23.50
		PM_{10}	5.50	23.50
		Pb	0.98	4.28
		NO_x	7.00	30.66
		SO_2	308.00	1349.04
		CO	429.00	1879.02
		VOC	26.30	115.19
		As	0.02	0.09
		Sn	0.09	0.40
		Sb	0.02	0.09
		Al	0.19	0.83
		Cd	0.02	0.09
		Na	0.57	2.51
39	Slag Fixation Baghouse Stack	TSP	0.65	2.82
		PM_{10}	0.65	2.82

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		Pb	0.02	0.09
		Al	0.03	0.13
45	Raw Material	TSP	4.11	18.20
	Storage/Shredder	PM_{10}	4.11	18.20
	Baghouse Stack	Pb	0.82	3.60
46	Battery Crusher	TSP	0.52	2.25
	Scrubber Stack	PM_{10}	0.52	2.25
		Pb	0.12	0.53
		H_2SO_4	0.20	0.88
F-1	Material Handling/	TSP	3.80	16.65
	Storage (4)	PM_{10}	1.90	8.33
		Pb	0.95	4.17

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
F-2	Hood Escape Fugitives	TSP	0.82	3.60
	Reverb./Blast	PM_{10}	0.41	1.80
	Furnaces (4)	Pb	0.21	0.92
		NO_x	3.50	15.33
		SO_2	154.00	674.52
		CO	214.50	939.51
		As	0.01	0.04
		Sn	0.04	0.18
		Sb	0.01	0.04
		Al	0.09	0.41
		Cd	0.01	0.04
		Na	0.29	1.25
F-3	Battery Storage/Breaker And Acid Water Treatment	H_2SO_4	0.06	0.40

(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
PM_{10} - 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
SO_2 - sulfur dioxide
CO - carbon monoxide
Pb - lead and lead compounds
As - arsenic and arsenic compounds
Sn - tin and tin compounds
Sb - antimony and antimony compounds
Al - aluminum and aluminum compounds
Cd - cadmium and cadmium compounds
Na - sodium and sodium compounds
H_2SO_4 - sulfuric acid mist/fumes

(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 and maximum production rates:

_24_ Hrs/day _7_ Days/week _52_ Weeks/year or _8,760_ Hrs/year

Maximum Allowable Molten Lead Production Rates:

Reverberatory Furnace: _4_ tons/hour _35,000_ tons/year

Blast Furnace: _4_ tons/hour _35,000_ tons/year