EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19430

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
P-6	Rotary Furnace Baghouse/ Scrubber Stack (Rotary Furnace [FIN S-6])	PM/PM_{10} (4)	0.44	1.91
		Pb	0.32	0.59
		SO_2	***10.27***	***44.97***
		TRS	***0.33***	***1.44***
		VOC	3.87	16.95
		HBr	1.20	5.26
		HCl	0.40	1.75
		CO	0.08	0.37
		NO_x	0.10	0.44
P-12	Shredder Baghouse Stack (600 Tilt Crucible, 175 Tilt Crucible, Reverbatory Furnaces No. 1 and 2, 2-inch Rotary Shear Shredder, 1.5-inch Rotary Shear Shredder [FINs S-8 through S-12, S-19, and S-21])	PM/PM_{10} (4)	2.42	10.62
		Pb	0.04	0.06
		SO_2	<0.01	<0.01
		VOC	0.02	0.08
		CO	0.28	1.21
		NO_x	0.33	1.45
P-14	Hygiene Baghouse Stack (Ball Mill, Sample Prep Room, Treatment Tanks T1 through T-4, Collection Tank, Discharge Tanks D-1 and D-2, Caustic Tank Nos. 1and 2, Wastewater Treatment, Hand Plasma Cutting System Nos. 1, and 2 ,Slag Hammering, Ingot Autocasters, Block Casting Molds, Wet Vacuum Sweeper [FINs S-13, S-23, S-25 through S-34, and S-37 through S-42])	PM/PM_{10} (4)	2.31	10.10
		Pb	1.02	2.22
		HNO_3	<0.01	0.03
		HCl	<0.01	<0.01
		NH_3	0.43	1.85
		NaOH	<0.01	<0.01
P-15	Kettle Baghouse Stack	PM/PM_{10} (4)	0.84	3.67

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	(Refining Kettles Nos. 1-5, Sweat Furnace [FINs S-1 through S-5, and S-7])	Pb	0.10	0.11
		SO_2	0.30	1.31
		TRS	0.30	1.31
		VOC	0.01	0.06
		CO	0.20	0.88
		NO_x	0.24	1.05
P-16A-E	Refining Kettle Burners (FINs S-1 through S-5 Products of Combustion)	PM/PM_{10}	0.07	0.29
		CO	0.74	3.22
		SO_2	<0.01	0.02
		NO_x	0.86	3.83
		VOC	0.05	0.21
P-17	Blender/Dryer Baghouse Stack	PM/PM_{10} (4)	0.40	1.77
		Pb	0.11	0.15
P-20	Wastewater Treatment Scrubber Tank	PM/PM_{10}	<0.01	<0.01
		NH_3	<0.01	<0.01
		NaOH	<0.01	<0.01
P-22	Electrolytic Processes Scrubber (FIN S-22 Phase II)	PM/PM_{10}	<0.01	<0.01
		PbO	<0.01	<0.01
		HF	<0.01	<0.01
		VOC	0.03	0.13
P-24	Crucible Furnace Exhaust (FINs S-35 and S-36)	PM/PM_{10} (4)	<0.01	0.03
		SO_2	<0.01	<0.01
		VOC	<0.01	0.02
		CO	0.08	0.37
		NO_x	0.10	0.44
P-25	Blender/Dryer Burners (FIN S-17 Products of Combustion)	PM/PM_{10}	0.02	0.08
		SO_2	<0.01	<0.01
		VOC	0.01	0.06

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		CO	0.20	0.88
		NO_x	0.24	1.05
P-26	Precious Metal Recovery Scrubber (FIN S-20 Precious Metal Recovery)	PM_{10}	0.55	2.40
		HNO_3	0.49	2.15
		HCl	0.06	0.25

(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 PM_{10}.
PM_{10} - 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.
Pb - lead and lead compounds
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
HBr - hydrogen bromide
HCl - hydrochloric acid
HNO_3 - nitric acid
TRS - total reduced sulfur
NH_3 - ammonia
NaOH - sodium hydroxide
HF - hydrogen fluoride
CO - carbon monoxide
NO_x - total oxides of nitrogen
PbO - lead oxide
(4) PM comprised of, but not limited to, copper and copper compounds, silver and silver compounds, nickel and nickel compounds, arsenic and arsenic compounds, cadmium and cadmium compounds, antimony and antimony compounds, and tin and tin compounds.

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* Refer to Special Conditions for throughput limitations and basis of emission rates.

Dated _