

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, sources, and related activities. 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 (8)	
			lbs/hour	TPY (4)
CRT Recycling and Pyro-Metallurgical Operations (6)				
P-50	Combined Building Stack (FINs S-1 through S-7, S-6 Comb, S-7 Comb, S-12, S-17, S-19, S-23, S-25 through S-31, S-34, S-39 through S-47, S-50)	PM (5)	6.76	29.59
		PM ₁₀ (5)	6.76	29.59
		PM _{2.5} (5)	6.76	29.59
		SO ₂	10.57	46.28
		TRS	0.63	2.75
		VOC	3.88	17.01
		CO	0.30	1.33
		NO _x	0.36	1.59
		HBr	1.20	5.26
		HCl	0.40	1.75
		HNO ₃	<0.01	0.03
		Pb	0.38	1.26
		NaOH	<0.01	<0.01
		NH ₃	0.42	1.85
P-16A-E	Refining Kettle Burners Stack (FINs S-1 Comb through S-5 Comb)	PM (5)	0.07	0.29
		PM ₁₀ (5)	0.07	0.29
		PM _{2.5} (5)	0.07	0.29
		VOC	0.05	0.21
		CO	0.72	3.16

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.86	3.76
		SO ₂	<0.01	0.02
P-20	Wastewater Treatment Scrubber Stack (FINs S-24 and S-48)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		NH ₃	<0.01	<0.01
		HNO ₃	<0.01	<0.01
		HCl	<0.01	<0.01
		NaOH	<0.01	<0.01
P-25	Blender/Dryer Burner Stack (FIN S-17 Comb)	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.02	0.08
		VOC	0.01	0.06
		CO	0.20	0.87
		NOx	0.24	1.03
		SO ₂	<0.01	<0.01
Site Wide	All	Individual HAP	-	<10.0
		All HAP	-	<25.0
Pre CRT Recycling (Pyro-Metallurgical Only) Operations (7)				
P-6	Rotary Furnace Baghouse/Scrubber Stack (Rotary Furnace[FIN S-6])	PM (5)	0.44	1.91
		PM ₁₀ (5)	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

Emission Sources - Maximum Allowable Emission Rates

		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 (2 Crucible Furnaces, 2-inch Rotary Shear Shredder [FINs S-12, and S-46 through S-47])	PM (5)	2.42	10.62
		PM ₁₀ (5)	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 T-5, Discharge Tanks D-1 and D-2, Caustic Tanks 1 and 2, Wastewater Treatment, Hand Plasma Cutting System 1 and 2, Slag Hammering, Ingot Auto Casters, Block Casting Molds, Wet Vacuum Sweeper, VDUs 1, 2, and 3 and VDU Melt Kettles 1, 2, 3, and 4)	PM (5)	2.31	10.10
		PM ₁₀ (5)	2.31	10.10
		Pb	1.01	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 (Refining Kettles Nos. 1 through 5 and Sweat Furnace [FINs S-1 through S-4])	PM (5)	0.84	3.67
		PM ₁₀ (5)	0.84	3.67
		Pb	0.10	0.11

Emission Sources - Maximum Allowable Emission Rates

		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 Stack (FINs S-1 through S-5 Products of Combustion)	PM	0.07	0.29
		PM ₁₀	0.07	0.29
		CO	0.72	3.16
		SO ₂	<0.01	0.02
		NO _x	0.86	3.76
		VOC	0.05	0.21
P-17	Blender/Dryer Baghouse Stack	PM (5)	0.40	1.77
		PM ₁₀ (5)	0.40	1.77
		Pb	0.11	0.15
P-20	Wastewater Treatment Scrubber Stack (Reaction Tanks R-1 and R-2, FINs S-24 and S-48)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		NH ₃	<0.01	<0.01
		NaOH	<0.01	<0.01
P-25	Blender/Dryer Burner Stack (FINs S-17 Products of Combustion)	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		SO ₂	<0.01	<0.01
		VOC	0.01	0.06
		CO	0.20	0.88
		NO _x	0.24	1.05
Site Wide	All	Individual HAP	-	<10.0
		All HAP	-	<25.0

Emission Sources - Maximum Allowable Emission Rates

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- TRS - total reduced sulfur
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HBr - hydrogen bromide
- HCl - hydrochloric acid
- HNO₃ - nitric acid
- NH₃ - ammonia
- NaOH - sodium hydroxide
- Pb - lead
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) PM, PM₁₀, and PM_{2.5} 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, lead and lead compounds, and tin and tin compounds.
- (6) The emission limits in this section (CRT Recycling and Pyro-Metallurgical Operations) become effective on the date gases are first exhausted through the Combined Building Stack, EPN P-50.
- (7) The emission limits in this section (Pre CRT Recycling (Pyro-Metallurgical Only) Operations) remain effective until the date gases are first exhausted through the Combined Building Stack, EPN P-50.
- (8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: February 25, 2013