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 (6)	
			lbs/hour	TPY (4)
P-6	Rotary Furnace Baghouse/ Scrubber Stack FIN S-6 (Rotary Furnace Melt and Combustion)	PM (5)	0.44	1.91
		PM_{10} (5)	0.44	1.91
		$PM_{2.5}$ (5)	0.44	1.91
		Pb	<0.01	0.02
		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	0.43
P-12	Shredder Baghouse Stack FIN S-12 (2" Rotary Shear Shredder); S-46 (Crucible Furnace No. 1), and S-47 (Crucible Furnace No. 2)	PM (5)	2.42	10.62
		PM_{10} (5)	2.42	10.62
		$PM_{2.5}$ (5)	2.42	10.62
		Pb	<0.01	0.04
		SO_2	<0.01	<0.01
		VOC	0.02	0.08
		CO	0.28	1.20
		NO_x	0.33	1.43

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P-14A	Hygiene Baghouse Stack FINs S-23 (Sample Prep Room), S-25 thru S-28 (Treatment Tanks 1 thru 4); S-29 (Collection Tank T5); S-30 and 31(Discharge Tanks D1 and D2); S-34 (Acid Loading Fugitives); S-39 (Slag Hammering Fugitives); S-40 (Ingot Autocaster); S-42 (Block Casting Molds); S-42 (Wet Vacuum Sweeper); S-43, 44, 45, and 50 (VDU Kettles 10, 11, 12, and 13); S-49 (Screen and Mixer)	PM (5)	2.28	10.00
		PM_{10} (5)	2.28	10.00
		$PM_{2.5}$ (5)	2.28	10.00
		Pb	0.19	0.83
		HNO_3	<0.01	0.03
		HCl	<0.01	<0.01
		NH_3	0.43	1.86
		NaOH	<0.01	<0.01
P-15	Refining Kettle Baghouse Stack FINs S-1 thru S-5 (Refining Kettles No. 1 thru 5); S-7 (Sweat Furnace-Melt and Combustion)	PM (5)	0.84	3.67
		PM_{10} (5)	0.84	3.67
		$PM_{2.5}$ (5)	0.84	3.67
		Pb	0.04	0.11
		SO_2	0.30	1.31
		TRS	0.30	1.31
		VOC	0.01	0.06
		CO	0.20	0.87
		NO_x	0.24	1.04

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P-16A-E	Refining Kettles Burners Stack FINs S-1 thru S-5 Combustion (Refining Kettle No. 1 thru No. 5)	PM	0.07	0.29
		PM_{10}	0.07	0.29
		$PM_{2.5}$	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 FIN S-17 (Blender-Dryer)	PM (5)	0.40	1.77
		PM_{10} (5)	0.40	1.77
		$PM_{2.5}$ (5)	0.40	1.77
		Pb	<0.01	0.02
P-20	Wastewater Treatment Scrubber Stack FINs S-24 (Reaction Tank R-1) and S-48 (Reaction Tank R-2)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		NH_3	<0.01	<0.01
		NaOH	<0.01	<0.01
		Pb	<0.01	<0.01
P-25	Blender/Dryer Burner Stack FIN S-17 (Combustion)	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		SO_2	<0.01	<0.01
		VOC	0.01	0.06
		CO	0.20	0.87
		NO_x	0.24	1.04
Site Wide	All	Individual HAP	-	<10.0
		All HAP	-	<25.0

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(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
SO_2 - sulfur dioxide
TRS - total reduced sulfur
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
HNO_3 - nitric acid
NH_3 - 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, PM_{10} 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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: September 14, 2022