Emission Sources - Maximum Allowable Emission Rates

Permit Number 55345

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)
01A	Furnaces Nos. 1 & 2 Combined Baghouses Stack	NO_x	0.14	0.29
		CO	12.38	43.05
		SO_2	0.48	1.92
		VOC	0.70	2.80
		PM	0.10	0.36
		PM_{10}	0.10	0.36
		$PM_{2.5}$	0.10	0.36
01B	Furnaces Nos. 3 & 4 Combined Baghouses Stack	NO_x	0.14	0.29
		CO	12.38	43.05
		SO_2	0.48	1.92
		VOC	0.70	2.80
		PM	0.10	0.36
		PM_{10}	0.10	0.36
		$PM_{2.5}$	0.10	0.36
02	Main Plant Baghouse Stack (Crusher, Screen, Hoppers, and Shearing Machine)	PM	0.94	2.76
		PM_{10}	0.94	2.76
		$PM_{2.5}$	0.94	2.76
03	Shear 1 Facilities Baghouse Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

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04	Shear 3 Facilities Baghouse Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
B1	Shear 1 Tumblers Baghouse Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
B2	Shear 2 Tumblers Baghouse Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FUGSANTA	Mold Sand Recycling and Metal Trash Tumbling (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
D1	Shear 1 Dumpers Fan Vents	PM	0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
D2	Counter 1 Dumpers Fan Vents	PM	0.02	0.08
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.02
D3	Shear 2 Dumpers Fan Vents	PM	0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
D4	Counter 2 Dumpers Fan Vents	PM	0.02	0.08
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.02
FUGPUF	Metal Alloy Milling and Slag Crushing (5)	PM	<0.01	<0.01

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		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FUGFOIL	Foil Converters Area Fugitives (5)	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04
FUGSAMP	Sampler Area Fugitives (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FUGSHR1	Shear 1 Facilities Area Fugitives (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FUGSHR2	Shear 2 Facilities Area Fugitives (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
PUF1	Pre-Oxidation Process Batch Kiln	NO_x	< 0.01	< 0.01
		CO	3.42	0.65
		SO_2	0.04	0.01
		VOC	0.02	< 0.01
		PM	0.08	0.02
		PM_{10}	0.08	0.02
		$PM_{2.5}$	0.08	0.02
PUF1	PGM Upgrading Facility Oxyfuel Burner 1 Stack	NO_x	0.11	0.46
		CO	0.33	1.45
		VOC	0.03	0.10
		PM	0.03	0.14

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		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.03	0.14
PUF1	PGM Upgrading Facility Oxyfuel Burner 2 Stack	NOx	0.11	0.46
		CO	0.33	1.45
		VOC	0.03	0.10
		PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.03	0.14
PUF1	PGM Upgrading Facility Process Conversion & Caustic Scrubber Stack	CO	4.90	3.39
		SO_2	0.17	0.12
PUF2	Pre-Oxidation Process 4 Eclipse Thermjet TJ0040 Heaters Stack	NOx	0.12	0.13
		CO	0.14	0.15
		SO2	<0.01	<0.01
		VOC	0.01	0.01
		PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.02	0.02

(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
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 PM2.5, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date October 29, 2018