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)
01	Furnaces Baghouses Stack (Electric Arc Furnaces 1, 2, and 3 and Bucket Elevators)	NO_x	0.28	0.58
		CO	25.61	89.06
		SO_2	7.59	24.27
		VOC	6.00	4.80
		PM	0.21	0.73
		PM_{10}	0.21	0.73
		$PM_{2.5}$	0.21	0.73
02	Main Plant Baghouse Stack (Crusher, Screen, Hoppers, and Shearing Machine)	PM	1.40	4.13
		PM_{10}	1.40	4.13
		$PM_{2.5}$	1.40	4.13
03	Shear 1 Facilities Baghouse Stack (Shearing Machines)	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	0.02	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
D2	Counter Dumper Fan Vent	PM	0.15	0.57
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.03	0.10

Emission Sources - Maximum Allowable Emission Rates

D3	Shear 2 Dumpers Fan Vents	PM	0.02	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
SC1	Slag Crushing	PM	0.07	0.08
		PM_{10}	0.03	0.04
		$PM_{2.5}$	<0.01	<0.01
CDT1	Palladium Catalyst De-baler, Shear 2, Converter Mesh Dust Recovery Facilities Baghouse Stack	PM	0.10	0.04
		PM_{10}	0.10	0.04
		$PM_{2.5}$	0.10	0.04
FUGPC	Palladium Catalyst Receiving (5)	PM	0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FUGFOIL	Foil Converters Area Fugitives (5)	PM	0.02	0.05
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.02	0.05
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

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
PUF1	Platinum Group Metals Upgrading Facility Caustic Scrubber Stack	NO_x	0.22	0.92
		CO	2.96	6.89
		SO_2	0.14	0.19
		VOC	0.08	0.30
		PM	0.10	0.40
		PM_{10}	0.10	0.40
		$PM_{2.5}$	0.10	0.40
RK1	Top Blown Rotary Converter Pilot Plant Stack	NO_x	0.10	0.14
		CO	0.28	0.37
		SO_2	0.27	0.35
		VOC	0.01	0.01
		PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
Permit by Rule (PBR) sources incorporated by reference. **Sources remain authorized by the PBRs as listed below:**				
PBR Registration No. 93897				
LS1	Laboratory Vent Scrubber	NO_x	0.0006	0.003
		HCl	0.0018	0.008
PBR Registration No.78264				
CDT2	Catalysts De-Baling	PM	0.02	0.01
		PM_{10}	0.02	0.01

Emission Sources - Maximum Allowable Emission Rates

PBR Registration No. 77285				
RK1	Rotary Kiln Stack	PM_{10}	0.06	0.26
		NO_x	1.00	4.31
		CO	0.17	0.75
		SO_2	0.47	2.02
		VOC	0.07	0.29
PBR Registration No. 87776				
CR1	Cartridge Recycling Unit	PM_{10}	1.76	0.02
		NO_x	0.20	0.01
		CO	0.16	0.01
		SO_2	0.68	<0.01

(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 February 15, 2013