

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 36726

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
RM EP01A	Shaft Furnaces No. 1 and 2 RTO Stack (5)	PM/PM ₁₀	6.85	38.80
		SO ₂	7.69	33.67
		NO _x	5.84	25.59
		CO	16.00	70.08
		VOC	2.26	9.91
		Pb	0.09	0.37
		Cu	0.62	2.69
RM EP03	Rod Mill Boiler Stack (6)	PM/PM ₁₀	0.08	0.34
		SO ₂	0.01	0.03
		NO _x	1.03	4.49
		CO	0.86	3.77
		VOC	0.06	0.25
RM EP06	Wax Exhaust Blower (6)	VOC	0.20	0.10
RM CCR-2 and CCR-3	300 System Oily Wastewater Tanks (6)	VOC	0.35	0.15
RM CCR-31	Emulsion Mixing Tank (6)	VOC	0.02	0.10
RTT	Refinery Transfer Tank (6)	VOC	0.35	0.15
RM ACSCRB	Rod Mill Acid Scrubber (Dr. Otto System) (6)	H ₂ SO ₄	3.24	6.91
RM CLTWRS	Rod Mill Cooling Towers (AMS, Annealing, Caster East/West, Crop Bar, Dr. Otto, Mill, Rinse Water, Waste Neutralization, Quincy Air	PM/PM ₁₀	1.67	7.30

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Compressor) (6)

RM EP24	Thermal Emulsion Breaker Combustion Stack (6)	PM/PM ₁₀	0.02	0.08
		SO ₂	<0.01	0.01
		NO _x	0.25	1.07
		CO	0.21	0.90
		VOC	0.01	0.06
RM EP25	EMEW Water Heater (6)	PM/PM ₁₀	0.01	0.04
		SO ₂	<0.01	<0.01
		NO _x	0.11	0.47
		CO	0.09	0.40
		VOC	0.01	0.03
UOT	Used Oil Tank (6)	VOC	1.15	5.22
RM FUG	Rod Mill Building Fugitives (Includes Launder Burners, Holding Furnace, CCR Mill, SF Air Preheater, Emulsion Filter Vacuum Producers, and Miscellaneous Small Tanks/Vessels) (4) (6)	PM/PM ₁₀	0.19	0.84
		SO ₂	0.02	0.07
		NO _x	2.52	11.05
		CO	2.12	9.28
		VOC	0.93	2.42

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM₁₀

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PM ₁₀	-	particulate matter equal to or less than 10 microns in diameter
SO ₂	-	sulfur dioxide
NO _x	-	total oxides of nitrogen
CO	-	carbon monoxide
VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
Pb	-	lead
Cu	-	copper
H ₂ SO ₄	-	sulfuric acid

(4) Fugitive emissions are an estimate only.

(5) Total emissions from both Shaft Furnace Nos. 1 and 2, but only one of the furnaces shall operate at any given time.

(6) These sources operate per the criteria of a permit by rule and are included by reference only.

Dated September 22, 2009