

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 45622

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)	<u>Emission Rates</u>	
			lb/hr	TPY
KS2	Process Kiln No. 2	PM	74.00	285.23
		PM ₁₀	29.60	114.09
		VOC	0.29	1.13
		NO _x	61.81	238.22
		SO ₂ (4)	727.31	2353.83
		CO	2.13	8.20
		SO ₃ (5)	8.78	28.83
		Pb (5)	0.13	0.55
		HCl	6.38	24.83
KS3	Process Kiln No. 3	PM	126.86	-
		PM ₁₀	50.74	-
		VOC	0.50	-
		NO _x	105.95	-
		SO ₂ (4)	1131.38	-
		CO	3.65	-
		SO ₃ (5)	15.05	-
		Pb (5)	0.22	-
		HCl	10.94	-

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
WHBS3	Kiln No. 3 Waste Heat Boiler Stack	PM	88.79	-
		PM ₁₀	45.31	-
		VOC	0.50	-
		NO _x	105.95	-
		SO ₂ (4)	1131.38	-
		CO	3.65	-
		SO ₃ (5)	15.05	-
		Pb (5)	0.22	-
		HCl	10.94	-
KS3/WHBS3	Total Kiln No. 3/Waste Heat Boiler Stacks	PM	-	488.97
		PM ₁₀	-	195.59
		VOC	-	1.94
		NO _x	-	408.38
		SO ₂ (4)	-	3716.60
		CO	-	14.07
		SO ₃ (5)	-	49.43
		Pb (5)	-	0.95
		HCl	-	42.56
KS4	Process Kiln No. 4	PM	126.86	-
		PM ₁₀	50.74	-
		VOC	0.50	-
		NO _x	105.95	-
		SO ₂ (4)	1131.38	-
		CO	3.65	-
		SO ₃ (5)	15.05	-
		Pb (5)	0.22	-
		HCl	10.94	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
WHBS4	Kiln No. 4 Waste Heat Boiler Stack	PM	88.79	-
		PM ₁₀	45.31	-
		VOC	0.50	-
		NO _x	105.95	-
		SO ₂ (4)	1131.38	-
		CO	3.65	-
		SO ₃ (5)	15.05	-
		Pb (5)	0.22	-
		HCl	10.94	-
KS4/WHBS4	Total Kiln No. 4/Waste Heat Boiler Stacks	PM	-	488.97
		PM ₁₀	-	195.59
		VOC	-	1.94
		NO _x	-	408.38
		SO ₂ (4)	-	3716.60
		CO	-	14.07
		SO ₃ (5)	-	49.43
		Pb (5)	-	0.95
		HCl	-	42.56

(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) PM - total suspended particulate including PM₁₀ and PM_{2.5}

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

SO₃ - sulfur trioxide

Pb - lead

HCl - hydrogen chloride

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- (4) The hourly emission rate for SO₂ shall be the limit for stack testing purposes. The hourly emission rate for reporting SO₂ compliance with the permit shall be based on a 7-day rolling average from a 24-hour composite analysis of the blended raw feed sulfur content. The annual emission rate for reporting SO₂ compliance with the permit shall be based on a calendar year.
- (5) Emitted as PM and included in the PM and PM₁₀ emission rate.

Dated September 13, 2010