

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5421

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
KS5 or WHBS5	Process Kiln No. 5	PM	87.90	385.00
		PM ₁₀	43.58	190.84
		VOC	0.50	2.50
		NO _x	164.40	720.00
		SO ₂ (4)	1170.00	5120.00
		CO	251.10	1100.00
		SO ₃ (6)	15.60	68.33
		Pb (6)	0.31	1.37
SP	Stockpiles (5) (Raw and Calcined)	PM	6.73	27.78
		PM ₁₀	0.74	3.22
MTLHDL	Material Handling (5) (Raw and Calcined Coke Conveying)	PM	50.63	42.05
		PM ₁₀	1.85	1.64
MTLUNLOAD	Raw Coke Unloading (5) Operations (Raw petcoke barge and ship crane unloading, railcar unloading, and truck unloading)	PM	3.85	3.22
		PM ₁₀	0.47	0.39
MTLLOAD	Raw Coke Loading (5) (Railcar and Truck Loading with front-end-loader)	PM	0.18	0.39
		PM ₁₀	0.02	0.05
RD-DC2	Kiln RD Building Hi-Vac Dust Collector (D.C.) Stack	PM/PM ₁₀	0.07	0.08
SR-DC	Sample Prep Bldg. D.C.	PM/PM ₁₀	0.06	0.11

LA-DC	Lab Annex Bldg. D.C.	PM/PM ₁₀	0.06	0.01
C&SDTBV	C and S Daytank Bin Vent	PM/PM ₁₀	0.07	0.31
SL1-DCL	Ship Loader Spout D.C.	PM/PM ₁₀	0.09	0.38
SL1-T1	Ship Loader Transfer Tower No. 1 D.C.	PM/PM ₁₀	0.09	0.38
SL1-T2	Ship Loader Transfer Tower No. 2 D.C.	PM/PM ₁₀	0.09	0.38
SL1-T3	Ship Loader Transfer Tower No. 3 D.C.	PM/PM ₁₀	0.09	0.38
SL-1	Ship Loading Dock Area D.C.	PM/PM ₁₀	0.91	4.00
C-37	C36/37 Conveyor Transfer Chute D.C.	PM/PM ₁₀	0.17	0.74
C-38	C37/ C38 Conveyor Transfer Point D.C	PM/PM ₁₀	0.17	0.76
CS-DV	T1/T2 Pneumatic Conveying System D.C.	PM/PM ₁₀	0.33	1.43
CS-1	Calcine Silo No. 1 Bin Vent	PM/PM ₁₀	0.84	3.69
CS-2	Calcine Silo No. 2 Bin Vent	PM/PM ₁₀	0.70	3.08
CS-3	Calcine Silo No. 3 Bin Vent	PM/PM ₁₀	0.70	3.08
CSS4	Calcine Silo No. 4 Bin Vent	PM/PM ₁₀	0.49	2.16
CS-CC	Main Calcine Material Handling System D.C.	PM/PM ₁₀	2.56	11.22
C35-HV	C35 Hi-Vac D.C.	PM/PM ₁₀	0.04	0.15
SL-PIT-DC	Enclosed Ship Loading Pit Dust Collector	PM/PM ₁₀	3.51	7.70

- (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 - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter
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

- (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 seven-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) Fugitive emissions are an estimate only.
- (6) Included in the PM/PM₁₀ allowable emission rates

Dated December 21, 2009