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, 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 (8)	
			lbs/hour	TPY (5)
KS2	Kiln No. 2 Stack	СО	14.46	63.33
		HCI	6.38	24.83
		HF	1.52	6.66
		NOx	61.81	238.22
		Pb (6)	0.13	0.55
		PM	73.54	283.20
		PM ₁₀	29.14	112.06
		PM _{2.5}	29.14	112.06
		SO ₂ (4)	727.31	2353.83
		SO ₃ (6)	8.78	28.83
		VOC	0.29	1.13
KS3	Kiln No. 3 Stack	СО	24.79	108.57
		HCI	10.94	42.56
		HF	2.61	11.42
		NOx	105.95	408.38
		Pb (6)	0.22	0.95
		PM	126.27	486.38
		PM ₁₀	50.15	193.00
		PM _{2.5}	50.15	193.00
		SO ₂ (4)	1131.28	3716.60
		SO ₃ (6)	15.05	49.43
		VOC	0.50	1.94
KS4	Kiln No. 4 Stack	со	24.79	108.57
		HCI	10.94	42.56
		HF	2.61	11.42

Project Number: 346081

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
		NOx	105.95	408.38
		Pb (6)	0.22	0.95
		PM	126.86	488.97
		PM ₁₀	50.74	195.59
		PM _{2.5}	50.74	195.59
		SO ₂ (4)	1131.38	3716.60
		SO ₃ (6)	15.05	49.43
		VOC	0.50	1.94
KS5	Kiln No. 5 Stack	СО	251.10	1100.00
		HCI	15.80	61.74
		HF	3.76	16.49
		NOx	164.40	720.00
		Pb (6)	0.31	1.37
		PM	86.87	380.49
		PM ₁₀	42.55	186.33
		PM _{2.5}	42.55	186.33
		SO ₂ (4)	1170.00	5120.00
		SO ₃ (6)	15.60	68.33
		VOC	0.50	2.50
CLR3DC	Cooler No. 3 Baghouse Stack	СО	5.61	24.55
		HCI	1.29	5.66
		HF	0.01	0.03
		NOx	1.29	5.64
		PM	0.59	2.59
		PM ₁₀	0.59	2.59
		PM _{2.5}	0.59	2.59
		SO ₂	1.39	6.08
		SO ₃	0.10	0.45

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
CLR5DC	Cooler No. 5	СО	11.37	49.79
	Baghouse Stack	HCI	2.62	11.47
		HF	0.02	0.07
		NOx	2.61	11.43
		РМ	1.49	6.53
		PM ₁₀	1.49	6.53
		PM _{2.5}	1.49	6.53
		SO ₂	2.82	12.33
		SO ₃	0.21	0.91
MTLHDL	Material Handling (Raw and Calcined Coke Conveying) (7)	PM	72.19	46.94
		PM ₁₀	2.05	1.59
		PM _{2.5}	0.44	0.32
MTLLOAD	Raw Coke Loading Operations (Railcar and Truck Loading with Front-End Loader) (7)	PM	1.15	0.93
		PM ₁₀	0.14	0.11
		PM _{2.5}	0.01	0.01
MTLUNLOAD	Raw Coke Unloading Operations (Raw Petcoke Barge and Ship Crane Unloading, Railcar Unloading, and Truck Unloading)	PM	5.79	4.27
		PM ₁₀	0.69	0.46
		PM _{2.5}	0.11	0.08
PA-PILES	Process Area Short- Term Piles (7)	РМ	0.13	0.57
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.01	0.01
SP	Stockpiles (Raw and Calcined) (7)	PM	6.73	27.78
		PM ₁₀	0.74	3.22
		PM _{2.5}	0.12	0.52
5C2DC	Conveyor 5C2	PM	0.02	0.09
	Insertable Dust Collector Vent	PM ₁₀	0.02	0.09
		PM _{2.5}	0.01	0.02

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
C25DC	Conveyor 25	PM	0.02	0.09
	Insertable Dust Collector Vent	PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.07
C31DC	Conveyor 31	PM	0.02	0.09
	Insertable Dust Collector Vent	PM ₁₀	0.02	0.09
		PM _{2.5}	0.01	0.02
C35-HV	C35 Hi-Vac Unit Dust	PM	0.04	0.15
	Collector Vent	PM ₁₀	0.04	0.15
		PM _{2.5}	0.01	0.05
C36DC	Conveyor C36	PM	0.04	0.18
	Insertable Dust Collector Vent	PM ₁₀	0.04	0.18
		PM _{2.5}	0.02	0.09
C-37	C36/37 Conveyor Transfer Chute Dust Collector Vent	PM	0.17	0.74
		PM ₁₀	0.17	0.74
		PM _{2.5}	0.02	0.09
C-38	C37/38 Conveyor Transfer Point Dust Collector Vent	PM	0.17	0.76
		PM ₁₀	0.17	0.76
		PM _{2.5}	0.02	0.09
C&SDTBV	C and S Daytank Bin Vent	PM	0.07	0.31
		PM ₁₀	0.07	0.31
		PM _{2.5}	0.01	0.05
CS-1	Calcine Silo No. 1 Bin Vent	PM	0.84	3.69
		PM ₁₀	0.84	3.69
		PM _{2.5}	0.02	0.09
CS-2	Calcine Silo No. 2 Bin Vent	PM	0.70	3.08
		PM ₁₀	0.70	3.08
		PM _{2.5}	0.01	0.05
CS-3		PM	0.70	3.08

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
	Calcine Silo No. 3 Bin	PM ₁₀	0.70	3.08
	Vent	PM _{2.5}	0.01	0.05
CS-4	Calcine Silo No. 4 Bin Vent	РМ	0.49	2.16
	vent	PM ₁₀	0.49	2.16
		PM _{2.5}	0.01	0.05
CS-CC	Main Calcine Material	PM	2.56	11.22
	Handling System Dust Collector (Airtrol Dust	PM ₁₀	2.56	11.22
	Collector) Vent	PM _{2.5}	0.06	0.34
CS-DV	T1/T2 Pneumatic	PM	0.33	1.43
	Conveying System Dust Collector Vent	PM ₁₀	0.33	1.43
		PM _{2.5}	0.01	0.05
L6DC	Conveyor L6 Insertable Dust Collector Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
L6ADC	Conveyor L6A Insertable Dust Collector Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
L25ADC	Conveyor L25A Insertable Dust Collector Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
L44DC	Conveyor L44 Insertable Dust Collector Vent	PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.02	0.09
L45DC	Conveyor L45 Insertable Dust Collector Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
L30-DC	Conveyor L30 Dust Collector Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
		PM _{2.5}	0.02	0.09
RD-DC2	Kiln RD Building Hi-	PM	0.07	0.08
	Vac Dust Collector Vent	PM ₁₀	0.07	0.08
		PM _{2.5}	0.07	0.08
SL-1	Ship Loading Dock Area Dust Collector	PM	0.91	4.00
	(L44 Dust Collector)	PM ₁₀	0.91	4.00
	Vent	PM _{2.5}	0.09	0.06
SL1-DCL	Ship Loader DCL	PM	0.042	0.185
	Spout Dust Collector Vent	PM ₁₀	0.042	0.185
		PM _{2.5}	0.004	0.019
SL1-T1	Ship Loader Transfer No. 1 (L44/L1) Dust Collector Vent	PM	0.09	0.38
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.09	0.18
SL1-T2	Ship Loader Transfer No. 2 (L1/L2) Dust Collector Vent	PM	0.09	0.38
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.09	0.09
SL1-T3	Ship Loader Transfer No. 3 (L2/L3) Dust Collector Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
SL-PIT-DC	Total Ship Loading Pit Dust Collector Stack 1 and Stack 2 Vent	PM	0.28	0.62
		PM ₁₀	0.28	0.62
		PM _{2.5}	0.09	0.02
SR-DC	Sample Prep Building Dust Collector Vent	PM	0.06	0.11
		PM ₁₀	0.06	0.11
		PM _{2.5}	0.06	0.11
S1DC1	Silo 1 Insertable Dust Collector 1 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.02

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
S1DC2	Silo 1 Insertable Dust	PM	0.02	0.09
	Collector 2 Vent	PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.02
S1DC3	Silo 1 Insertable Dust Collector 3 Vent	PM	0.02	0.09
	Collector 3 Verit	PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.02
S1DC4	Silo 1 Insertable Dust	PM	0.02	0.09
	Collector 4 Vent	PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.02
S2DC1	Silo 2 Insertable Dust Collector 1 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.03
S2DC2	Silo 2 Insertable Dust Collector 2 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.03
S2DC3	Silo 2 Insertable Dust Collector 3 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.03
S3DC1	Silo 3 Insertable Dust Collector 1 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.03
S3DC2	Silo 3 Insertable Dust Collector 2 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.03
S3DC3	Silo 3 Insertable Dust Collector 3 Vent	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.03
S4DC1		PM	0.02	0.09

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (8)	
			lbs/hour	TPY (5)
	Silo 4 Insertable Dust Collector 1 Vent	PM ₁₀	0.02	0.09
	Collector 1 Vent	PM _{2.5}	0.02	0.05
S4DCL44	Silo 4 Insertable Dust Collector at L44 Vent	PM	0.02	0.09
	Collector at L44 Vent	PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.05
MSS-FUG	Heavy Material	PM	1.03	0.02
	Handling (7)(8)	PM ₁₀	0.49	0.01
		PM _{2.5}	0.07	0.01
	Refractory Removal (7)(8)	PM	1.35	0.12
		PM ₁₀	0.64	0.06
		PM _{2.5}	0.10	0.01
	Dust Collector Maintenance (7)(8)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
	Vacuum Truck Solids	PM	0.43	0.63
	Loading (7)(8)	PM ₁₀	0.15	0.22
		PM _{2.5}	0.02	0.03
	Vacuum Truck Liquids Loading (7)(8)	VOC	0.08	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) CO - carbon monoxide

HCI - hydrogen chloride

HF - hydrogen fluoride

NOx - total oxides of nitrogen

Pb - lead

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as

represented

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as

represented

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

SO₂ - sulfur dioxide SO₃ - sulfur trioxide

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

(4) The hourly emission rate for SO_2 shall be the limit for stack testing purposes. The hourly emission rate for reporting SO_2 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) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (6) Emitted as PM and included in the PM and PM₁₀ emission rate.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (8) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition No. 37, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.