Permit Number 48455

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	Source	Air	Contaminant	Emission I	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
5F	Bauxite Unloading (Marine Terminal) (4)		PM PM ₁₀	165.00 19.92	173.33 20.92
12	Kiln 8 - ESP Stack	CO	PM/PM_{10} NO_x 22.00 SO_2 VOC Hg 0.10	9.76 19.00 83.60 0.23 5.00 0.0025 0.24	37.08 48.49 0.88 19.00 0.01
13	Facility 51 - Alumina Conveyo Baghouse		PM/PM ₁₀	1.63	7.14
14	Facility 51 - Alumina Conveyo Baghouse	or	PM/PM ₁₀	1.63	7.14
14F	Dock Conveyor (4)	PM ₁₀	PM 0.11	0.24 0.12	0.25
29	Kiln 9 - ESP Stack		PM/PM_{10} NO_x CO SO_2 VOC Hg	9.76 9.64 22.00 0.23 5.00 0.0025	7.03 6.95 15.84 0.17 3.60 0.002
30	South Railroad Track Baghouse Stack		PM/PM ₁₀	1.63	7.14

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
31	Alumina Ship Loader Conveyor Elevator Baghouse Stack	PM/PM ₁₀	1.29	5.64
32	Kiln 1- Hydrate Dryer - ESP Stack	PM/PM_{10} NO_x CO SO_2 VOC Hg	5.00 1.00 0.50 0.04 2.20 0.0008	21.90 4.38 2.19 0.14 4.69 0.003
34	Alumina Ship Loader Conveyor - Tunnel Baghouse Stack	PM/PM ₁₀	1.29	5.64
35	Alumina Ship Loader Conveyor - Tower Baghouse Stack	PM/PM ₁₀	1.20	5.26
53	Hydrate Loading Baghouse	PM/PM ₁₀	0.39	1.67
90F	90 Silo Fugitives (4)	PM/PM ₁₀	0.73	3.17
91F	Alumina Loading (4) (Marine Terminal)	PM/PM ₁₀	55.20	38.38
92	90 1-1 Silo Dust Collector	PM/PM ₁₀	0.43	1.88
93	90 2-1 Silo Dust Collector	PM/PM ₁₀	0.43	1.88
94	90 2-2 Silo Dust Collector	PM/PM ₁₀	0.43	1.88
95	90 3-1 Silo Dust Collector	PM/PM ₁₀	0.43	1.88
96	90 3-2 Silo Dust Collector	PM/PM ₁₀	0.43	1.88
97	90 3-3 Silo Dust Collector	PM/PM ₁₀	0.43	1.88

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
98	90 3-4 Silo Dust Collector	PM/PM ₁₀	0.43	1.88	
100A	Lime Silo 1 Vent Baghouse	PM/PM ₁₀	0.13	0.56	
100B	Lime Silo 2 Vent Baghouse	PM/PM ₁₀	0.13	0.56	
101	No. 1 Lime Slaker Baghouse	PM/PM ₁₀	0.13	0.56	
102	No. 2 Lime Slaker Baghouse	PM/PM ₁₀	0.13	0.56	
109	Belt Feeding Calciner No. 1 (4)(5)	PM/PM ₁₀	<0.01	<0.01	
110	Belt Feeding Calciner No. 2 (4)(5)	PM/PM ₁₀	<0.01	<0.01	
111	Scale Conveyor (4)(6)	PM/PM ₁₀	<0.01	<0.01	
112	Conveyor Feeding Kiln No. 8 (4)(5)	PM/PM ₁₀	<0.01	<0.01	
113	Conveyor Feeding Kiln No. 9 (4)(5)	PM/PM ₁₀	<0.01	<0.01	

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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

 PM_{10} - particulate matter equal to or less than 10 microns in diameter.

CO - carbon monoxide

Hg - mercury

HF - hydrogen fluoride

- (4) Fugitive emissions are an estimate only.
- (5) Minimal emissions due to 8 to 10 percent moisture in the material during normal operations.
- (6) Minimal emissions because the material contains 10 to 15 percent free liquors entrained in the matrix.
- * Refer to special conditions for throughput limitations and basis of emission rates.

Dated	December 2, 2005	
Duicu _	December 2, 2000	