EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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 emissions 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
5F	Bauxite Unloading (E-Cranes Nos. 1 and 2) (4)	PM/PM_{10}	18.33	--
15B and 15F	Bauxite Supplemental Unloading Barge and Bulkhead (4) (7)	PM/PM_{10}	5.81	--
5F, 15B, and 15F	Total Bauxite Unloading Operations (4)	PM/PM_{10}	--	15.04
131	Bauxite Transfer Hoppers Nos. 1 and 2 (4)	PM/PM_{10}	7.70	6.47
16	Bauxite Supplemental Stockpile (4) (9)	PM/PM_{10}	--	1.72
12	Kiln 8 - ESP Stack	PM/PM_{10}	9.76	33.01
		NO_x	19.00	49.65
		CO	22.00	74.40
		SO_2	0.23	0.78
		VOC	5.00	16.91
		Hg	0.0025	0.008
		HF	0.10	0.23
		PM/PM_{10} (8)	35.60	0.14
13	Facility 51 - Alumina Conveyor Baghouse	PM/PM_{10}	1.63	7.14
14	Facility 51 - Alumina Conveyor Baghouse	PM/PM_{10}	1.63	7.14
14F	Dock Conveyor (4)	PM/PM_{10}	15.40	12.94
29	Kiln 9 - ESP	PM/PM_{10}	9.76	10.54

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	Stack	NO_x	9.64	10.41
		CO	22.00	23.76
		SO_2	0.23	0.25
		VOC	5.00	5.40
		Hg	0.0025	0.003
		PM/PM_{10} (8)	19.00	0.08
30	South Railroad Track Baghouse Stack	PM/PM_{10}	1.63	7.14
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}	5.00	21.90
		NO_x	1.00	4.38
		CO	0.50	2.19
		SO_2	0.04	0.14
		VOC	2.20	4.69
		Hg	0.0008	0.003
		PM/PM_{10} (8)	20.10	0.18
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 Stack	PM/PM_{10}	0.39	1.67
90F	90 Silo Fugitives (4)	PM/PM_{10}	0.73	3.17

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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
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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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) PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter equal to or less than 10 microns in diameter
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
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.
(7) These emissions will no longer be authorized after December 31, 2010.
(8) Emissions associated with maintenance startup and shutdown activities.
(9) These emissions will no longer be authorized after October 28, 2011.

* Refer to special conditions for throughput limitations and basis of emission rates.

Dated October 7, 2010