

Emission Sources - Maximum Allowable Emission Rates

Permit Number 21826

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 (6)	
			lbs/hour	TPY (4)
F-1	Melting Furnace 1 Stack	CO	0.59	2.58
		HF	0.02	0.09
		NO _x	1.33	5.83
		PM	0.05	0.23
		PM ₁₀	0.05	0.23
		SO ₂	< 0.01	0.02
		VOC	0.04	0.17
F-2	Melting Furnace 2 Stack	CO	0.42	1.85
		HF	0.01	0.06
		NO _x	0.96	4.19
		PM	0.04	0.17
		PM ₁₀	0.04	0.17
		SO ₂	< 0.01	0.01
		VOC	0.03	0.12
F-3	Melting Furnace 3 Stack (1800 pounds aluminum per hour)	CO	0.43	1.89
		HF	0.01	0.04
		NO _x	0.97	4.27
		PM	0.04	0.17
		PM ₁₀	0.04	0.17
		SO ₂	< 0.01	0.01
		VOC	0.03	0.12
F-3	Melting Furnace 3 Stack (4000 pounds aluminum per hour)	CO	0.84	3.68
		HF	0.01	0.04
		NO _x	1.00	4.38

Emission Sources – Maximum Allowable Emission Rates

		PM	8.60	37.67
		PM ₁₀	5.20	22.78
		PM _{2.5}	4.32	18.92
		SO ₂	0.01	0.03
		VOC	0.46	2.01
F-4	Melting Furnace 4 Stack	CO	0.59	2.58
		HF	0.02	0.09
		NO _x	1.33	5.83
		PM	0.05	0.23
		PM ₁₀	0.05	0.23
		SO ₂	< 0.01	0.02
		VOC	0.04	0.17
WE-1	Water Evaporator (SAMSCO) Stack	CO	0.06	0.27
		NO _x	0.07	0.32
		PM ₁₀	< 0.01	0.02
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.02
		VOC (a)	< 0.01	< 0.01
WE-2	Water Evaporator (Landa) Stack	CO	0.01	0.05
		NO _x	0.05	0.24
		PM ₁₀	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.01
WE-3	Water Evaporator (No. 2 Landa) Stack	CO	0.01	0.05
		NO _x	0.05	0.24
		PM ₁₀	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.01
DH-1	Holding Furnaces 1, 2, 3, 4, 14, 15, 16, 17, 19, 20 and Zinc Holding Furnace (5)	CO	0.20	0.86
		NO _x	0.23	1.03

Emission Sources – Maximum Allowable Emission Rates

		PM	0.02	0.08
		PM ₁₀	0.02	0.08
		SO ₂	< 0.01	< 0.01
		VOC	0.01	0.06
DH-2	Holding Furnaces 5, 6 and 18 (5)	CO	0.05	0.24
		NO _x	0.06	0.28
		PM	< 0.01	0.02
		PM ₁₀	< 0.01	0.02
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.02
DH-3	Holding furnaces 8, 9 and 10 Vent	CO	0.05	0.24
		NO _x	0.06	0.28
		PM	< 0.01	0.02
		PM ₁₀	< 0.01	0.02
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.02
DH-4	Holding Furnaces 11, 12 and 13 (5)	CO	0.05	0.24
		NO _x	0.06	0.28
		PM	< 0.01	0.02
		PM ₁₀	< 0.01	0.02
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.02
EF-1, 2 and 3	Holding Furnaces 21 and 22 (5)	CO	0.04	0.16
		NO _x	0.04	0.19
		PM	< 0.01	0.01
		PM ₁₀	< 0.01	0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.01
EF-6	Holding Furnaces 25 and 26 (5)	CO	0.04	0.16
		NO _x	0.04	0.19

Emission Sources – Maximum Allowable Emission Rates

		PM	< 0.01	0.01
		PM ₁₀	< 0.01	0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.01
EF-7	Holding Furnaces 24 (5) (Two furnaces)	CO	0.02	0.08
		NO _x	0.02	0.09
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	< 0.01
EF-8	Holding Furnaces 23 (5) (Two furnaces)	CO	0.02	0.08
		NO _x	0.02	0.09
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	< 0.01
HTF-1	No. 1 Heat Treat Oven Stack	CO	< 0.01	< 0.01
		NO _x	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	< 0.01
VD-1	ALMCO Vibratory Dryer Stack	CO	0.04	0.18
		NO _x	0.05	0.21
		PM	< 0.01	0.02
		PM ₁₀	< 0.01	0.02
		SO ₂	< 0.01	< 0.01
		VOC	< 0.01	0.01
WDC	Wheelabrator Cartridge Filter Vent	PM ₁₀	1.15	5.03

(1) Emission point identification - either specific equipment designation or emission point number from plot
Project Numbers: 182466 and 186605

Emission Sources – Maximum Allowable Emission Rates

plan.

- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) CO - carbon monoxide
HF - hydrogen fluoride
NO_x - total oxides of nitrogen
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - 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
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VOC(a) - VOC emitted during evaporation process
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date July 17, 2013