

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 48501

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**
MELTFURN	Melting Furnace Stack (6)	NO _x	3.49	55.97
		CO	3.07	12.53
		PM ₁₀	0.51	13.71
		SO ₂	0.38	(5)
		VOC	1.03	(5)
		D/F	8.0E-09	(5)
		HCl	1.24	(5)
BH2	Melting Furnace Fabric Filter Stack	NO _x	8.44	-
		CO	7.42	-
		SO ₂	0.92	-
		VOC	2.50	-
		D/F	1.9E-08	-
		HCl	3.00	-
		PM ₁₀	1.06	-
HOLDFURN	Holding Furnace Stack (6)	NO _x	0.90	7.01
		CO	0.24	3.5
		PM ₁₀	0.37	3.07
		SO ₂	0.31	(5)
		VOC	0.19	(5)
		D/F	1.6E-09	(5)
		HCl	<0.01	(5)
HOMOGFURN	Homogenizing Furnace Stack	NO _x	2.00	8.74
		CO	1.00	4.37
		SO ₂	<0.01	0.03
		PM ₁₀	0.10	0.43
		VOC	0.07	0.31
CYC	Billet Cut Off Saw	VOC	0.31	0.23

	Cyclone Stack	PM ₁₀	0.05	1.07
CTWR	Cooling Tower	PM ₁₀	0.39	1.69
DIESEL	Diesel Tank and Fueling (4)	VOC	<0.02	<0.01
BH1	Bagfilter No.1 Stack (6) Holding Furnace, Dross Press, and Dross Truck	PM ₁₀	3.43	15.02
		VOC	1.36	(5)
		D/F	2.1E-08	(5)
		HCl	0.03	(5)
		NO _x	6.53	
BLDGFUG 1	Building Fugitives (4) MELTFURN, HOLDFURN, and DEGASS	PM ₁₀	0.07	0.73
		SO ₂	(5)	(5)
		VOC	(5)	(5)
		D/F	(5)	(5)
		HCl	(5)	(5)
CMCLEAN	Ceramic Media Cleaning (4)	PM ₁₀	0.02	<0.01
SCRPYRD	Scrap Yard Fugitives (4)	PM ₁₀	1.57	6.87
BLDGFUG 2	Dross Handling (4 and 6)	PM ₁₀	0.22	0.58
CAP	Painted Scrap Emissions Cap	HCl (5)	4.63	4.83
(MELTFURN,		D/F (5)	0.0000015	<0.0000016
HOLDFURN,		VOC (5)	1.14	2.29
CASTFUG, and		SO₂ (5)	0.85	1.01
BAGFILTER)				

- (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
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

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			lb/hr	TPY**

CO - carbon monoxide
HCl - hydrogen chloride
D/F - dioxins and furans

(4) Fugitive emissions are an estimate only.

(5) Total plant wide emissions of the compound from identified sources shall not exceed the CAP value shown at Emission Point No. CAP.

(6) Hazardous Air Pollutant (HAP) emissions included in particulate matter and VOC values. Speciated HAPs and HAP emission rates are reflected in permit file.

* **Emission rates are based on and the facilities are limited by the following maximum operating schedule and parameters:**

24 Hrs/day 7 Days/week 52 Weeks/year 8,760 Hrs/year

Melting Furnace Maximum Allowable Throughput:

A. 49.5 tons of aluminum per charge and 7 charges per 24-hour period

B. 103,400 tons of aluminum per year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated