

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 53050

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)	<u>Emission Rates</u>	
			lb/hr	TPY(4)
ARGON	Site-wide Argon Usage from TBC101-TBC105, VF1, VF2, VF4, VF5, and WELD	Argon	932.00	3662.00
HYDROGEN	Site-wide Hydrogen Usage from VF5 and TBC101-TBC105	Hydrogen	55.28	151.70
FUG-PM	GB1, GB2, SP-1, GASP-1, GRIND, FPI-AUTO, FPI-MAN, and WELD Fugitives	PM	0.44	1.59
		PM ₁₀ /PM _{2.5}	0.17	0.42
VF1 through VF5	Vacuum Furnaces 1, 2, 4, and 5 Emissions Cap	PM/PM ₁₀ /PM _{2.5}	0.09	0.33
		VOC	0.68	0.33
TBC101 through TBC105	TBC Cells 1 through 5 Emissions Cap	PM/PM ₁₀ /PM _{2.5}	<0.01	<0.01
		VOC	<0.01	<0.01
ACR-SCRUB	Acid Stripping Line Scrubber	Acidic Gases	0.11	0.41
ACR-FUG	Acid Stripping Line Fugitives	Acidic Gases	0.57	2.14

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ACR-BOIL	ACR Boiler	NO _x	0.08	0.37
		CO	0.07	0.31
		PM/PM ₁₀ /PM _{2.5}	0.01	0.03
		VOC	0.01	0.02
		SO ₂	<0.01	<0.01
		Lead (Pb)	<0.01	<0.01
WCT1	Water Cooling Tower No. 1	PM/PM ₁₀ /PM _{2.5}	0.24	1.06
WCT2	Water Cooling Tower No. 2	PM/PM ₁₀ /PM _{2.5}	0.01	0.06
WCT3	Water Cooling Tower No. 3	PM/PM ₁₀ /PM _{2.5}	0.68	2.97
FUG-VOC	Miscellaneous Chemical Usage	VOC	6.12	2.75
Site-wide	Site-wide Sources	Individual HAP		<10.0
		Total HAPs		<25.0

- (1) Emission point identification.
- (2) Specific point source names.
- (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 and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or as amended in Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits is based on a rolling 12-month period.

Dated June 6, 2011