EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 49246

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.

Emission	Source	Air Contaminant	t <u>Emission Rate</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
1-102B	Drier Regenerator Heater (4,380 hours per year) PM: SO2 VO0	0.01	1.33 1.59 0.26 0.02 0.19	2.92 3.48
1-103B	Converter Regenerator Heate (2,592 hours per year) PM: SO: VO	NO _x 0 0.02 0.01	0.21 0.25 0.02 0.01 0.02	0.27 0.33
1-105A	Main Flare (Normal Operation and Pilot Fuel Only) SO ₂ VO		258.34 1.00 50.70 2.77 44.88	58.60 0.03 11.50
137-F	Wash Oil Tank	VOC	0.01	0.01
141-F	DEA Tank	VOC	0.01	0.01
179-F/797F	Diesel Tank	VOC	0.21	0.01
A-206	Acetylene Converter Vent	VOC	0.59	0.01
ANA-VENT	Analyzer Vents	VOC	0.23	0.87

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
BLOW-VENT	Blow down Vents (7) (Start up, Shutdown and Maintenance Operation		VOC	4.94	0.98
CV-1	Decoking Vents from Ethylene Furnaces A-H		CO PM ₁₀	153.96 0.88	9.52 0.05
F-1-101U	Main Cooling Tower	VOC	PM ₁₀ 1.58	0.01 6.90	0.01
F-ABCG	Ethylene Furnaces A, B, and G and Waste Heat I	` '	167.07 5.88 0.46	101.81 NO _x 15.96 1.26 11.55	276.31 61.56
	(6)	PM ₁₀ SO ₂ VOC	CO NO _x 5.88 0.46 4.26	101.81 47.35 15.96 1.26 11.55	276.31 128.52
F-DEFH	Ethylene Furnaces D, E, and H and Waste Heat I	` ,	192.78 5.88 0.46	65.00 NO _x 15.96 1.26 11.55	176.40 71.03
	(6)	PM ₁₀ SO ₂ VOC	CO NO _x 5.88 0.46 4.26	65.00 47.35 15.96 1.26 11.55	176.40 128.52

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Emission	Source	Air Contaminant	Emission	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
F-1-GB	Wastewater Basins	VOC	6.75	1.23	
M-102A	Wash Oil Tank	VOC	0.19	0.01	
MAINT-METER	Meter Calibration Vents	VOC	0.01	0.01	
T-142F	Spent DEA Tank	VOC	0.06	0.25	
PLANT	Process Fugitives (4)	VOC	24.79	109.02	

- (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) CO carbon monoxide
 - H₂S hydrogen sulfide
 - NO_x total oxides of nitrogen
 - PM_{10} 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.
 - SO₂ sulfur dioxide
 - VOC volatile organic compounds as defined in the Title 30 Texas Administrative Code § 101.1.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Pre emission control
- (6) Post emission control
- (7) FIN/EPN (102C-, 116J-, 117J-, 157F- and 210F-) BLOW represent the startup, shutdown and maintenance emission values from EPN BLOW-VENT.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
- _____<u>24</u> Hrs/day <u>7</u> Days/week <u>52</u> Weeks/year

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

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