

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19806

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
EB-1B-2501	Feed Heater	NO _x	9.10	39.86
		CO	2.23	9.75
		VOC	0.18	0.78
		PM	0.06	0.28
		SO ₂	0.04	0.17
EB-1B-505	Regen Air Exhaust	NO _x	83.60	332.88
		CO	9.60	35.04
		VOC	0.50	2.18
		PM	0.36	1.57
		SO ₂	0.21	0.94
EB-1B-506	Turbine/Heat Recovery Boiler 170.48	NO _x		46.71
		CO	3.11	11.37
		VOC	0.35	1.57
		PM	0.32	1.45
		SO ₂	0.18	0.87
F-CT-2D	Cooling Tower	VOC	0.72	3.14
T-101	Tank 101	VOC	0.29	1.07
T-31	Tank 31	VOC	0.71	0.56
T-6F-1778	Tank 6F-2778	VOC	0.69	0.41
F-20	Fugitives (4)	VOC	4.18	18.29

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			lb/hr	TPY
EP-H5	Boiler No. 5 (5)	NO _x	49.14	215.23
		CO	8.85	38.74
		VOC	0.31	1.34
		PM	1.11	4.77
		SO ₂	0.13	0.53
EP-H8	Boiler No. 8 (5)	NO _x	120.28	349.22
		CO	17.50	50.80
		VOC	0.61	1.78
		PM	2.19	6.35
		SO ₂	0.26	0.76
EP-H9	Boiler No. 9 (5)	NO _x	240.29	658.08
		CO	34.95	95.72
		VOC	1.22	3.35
		PM	4.37	11.97
		SO ₂	0.52	1.44
EP-5	Flare (6)	VOC	30.01	0.40
T-117	Tank 117	VOC	0.025	0.12
T-118	Tank 118	VOC	0.025	0.12
T-119	Tank 119	VOC	0.025	0.12
E-PIBTT	PIB Product Loading - Tank Trucks	VOC	0.57	0.28
E-PIBTC	PIB Product Loading - Tank Cars	VOC	0.57	0.28
F-PIBPROC (4) 1.00	PIB Unit Process Fugitives	VOC		0.23

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
F-PIBSTOR (4)	PIB Tank Farm Fugitives	VOC	0.36	1.57

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM -particulate matter
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These emission limits will become effective on the date of start of normal operations of the PIB Unit.
- (6) Emissions from No. 2 Dehydro Unit only.

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

Hrs/day_____Days/week_____Weeks/year_____or Hrs/year 8,760

Dated _____