

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2799/PSD-TX-793

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**
DDB-101-A	E/P Furnace	NO ₂	37.50	130.80
		CO	13.50	59.20
		PM ₁₀	1.70	7.40
		SO ₂	3.10	0.70
		VOC	1.00	4.20
DDB-101-B	E/P Furnace	NO ₂	25.00	105.12
		CO	13.50	59.20
		PM ₁₀	1.70	7.40
		SO ₂	3.10	0.70
		VOC	1.00	4.20
DDB-101-C	E/P Furnace	NO ₂	37.50	130.80
		CO	13.50	59.20
		PM ₁₀	1.70	7.40
		SO ₂	3.10	0.70
		VOC	1.00	4.20
DDB-101-D	E/P Furnace	NO ₂	37.50	130.80
		CO	13.50	59.20
		PM ₁₀	1.70	7.40
		SO ₂	3.10	0.70
		VOC	1.00	4.20
DDB-102-A	DNG Furnace	NO ₂	28.50	99.30
		CO	10.20	44.90
		PM ₁₀	1.30	5.60
		SO ₂	2.40	0.50
		VOC	0.73	3.20

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			lb/hr	TPY**
DDB-102-B	DNG Furnace	NO ₂	28.50	99.30
		CO	10.20	44.90
		PM ₁₀	1.30	5.60
		SO ₂	2.40	0.50
		VOC	0.73	3.20
DDB-102-C	DNG Furnace	NO ₂	28.50	99.30
		CO	10.20	44.90
		PM ₁₀	1.30	5.60
		SO ₂	2.40	0.50
		VOC	0.73	3.20
DDB-102-D	DNG Furnace	NO ₂	28.50	99.30
		CO	10.20	44.90
		PM ₁₀	1.30	5.60
		SO ₂	2.40	0.50
		VOC	0.73	3.20
DDB-103	Raffinate Furnace	NO ₂	28.50	96.30
		CO	10.00	43.80
		PM ₁₀	1.20	5.50
		SO ₂	2.30	0.50
		VOC	0.71	3.10
DDB-201	Regen. Heater	NO ₂	5.85	20.50
		CO	2.10	9.30
		PM ₁₀	0.30	1.20
		SO ₂	0.50	0.10
		VOC	0.15	0.70
DDB-601	Regen. Heater	NO ₂	0.81	2.84
		CO	0.28	1.23
		PM ₁₀	0.035	0.15
		SO ₂	0.068	0.015
		VOC	0.02	0.09
DDM-3101	Flare	NO ₂	1.36	0.88

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			lb/hr	TPY**
		CO	8.02	5.12
		SO ₂	0.01	0.02
		VOC	200.01	26.70
DAT-3201	Cooling Tower	VOC	4.64	20.35
DDZ-902	Lime Silo Filter Vent	PM	0.002	0.01
FUG-A 20F	Analyzer Vents (4)	VOC	<0.01	0.004
FUG-V 20F	General Fugitive (4)	VOC	80.40	352.10
DDF-1301	Methanol Tank	VOC	2.35	0.03
DDF-1001	Fuel Oil Tank	VOC	1.06	0.27
DDF-705	Sodium Nitrite Solution Tank	VOC	6.50	0.05
DDF-701	Sodium Nitrite Solution Tank	VOC	6.50	0.06
DDF-202	Methanol Tank	VOC	3.90	0.006
AF-3215	Bleach Tank	Cl ₂	0.03	0.003
DDF-101	Decoke Stack	PM ₁₀	6.20	1.5
		CO	36.50	7.20
DDD-606	Hydrotreater Regeneration Stack	CO	10.00	1.40
		SO ₂	45.80	3.30
DDB-104-A	Liquid Furnace	NO ₂	22.32	91.90
		CO	9.31	38.35
		PM ₁₀	0.70	2.88
		SO ₂	3.13	0.68
		VOC	0.33	1.34
DDB-104-B	Liquid Furnace	NO ₂	22.32	91.90
		CO	9.31	38.35

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		PM ₁₀	0.70	2.88
		SO ₂	3.13	0.68
		VOC	0.33	1.34
DDF-104	Decoke Stack	CO	73.00	3.18
		PM ₁₀	0.80	0.017

- (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) NO₂ - nitrogen dioxide
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter 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 30 Texas Administrative Code Section 101.1
Cl₂ - chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emissions rate.

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

Hrs/year 8,760

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

Dated August 30, 2000