

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 34310

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
BLDFUG	Building Vents	VOC	0.01	0.03
DC-11	Line 1 Sand Heater Baghouse	PM	0.09	0.38
		PM <sub>10</sub>	0.09	0.38
		PM <sub>2.5</sub>	0.09	0.38
		CO (5)	0.54	2.38
		NO <sub>x</sub> (5)	0.65	2.83
		PM (5)	0.05	0.21
		SO <sub>2</sub> (5)	<0.01	0.02
		VOC (5)	0.04	0.16
DC-12	Line 1 Process Baghouse	PM	0.15	0.64
		PM <sub>10</sub>	0.15	0.64
		PM <sub>2.5</sub>	0.15	0.64
DC-2	Baghouse	PM	0.07	0.29
DC-3	Baghouse	PM	0.07	0.29
HEXATANK	Hexa Tank	VOC	0.23	0.01
RTO-1	Oxidizer	VOC	11.76	17.82
		CO (5)	0.20	0.88
		NO <sub>x</sub> (5)	0.50	1.38
		PM (5)	0.02	0.08
		SO <sub>2</sub> (5)	<0.01	0.01
		VOC (5)	0.24	0.88
SCRAPSAND	Scrap Sand Handling	PM	0.67	0.32
TK262	Resin Tank	VOC	0.01	<0.01
TK685	Resin Tank	VOC	0.01	<0.01
PORTCONV	Portable Conveyor	PM	0.14	0.02

Emission Sources - Maximum Allowable Emission Rates

	System	CO (5)	0.92	4.00
		NO <sub>x</sub> (5)	2.49	10.89
		PM (5)	0.10	1.00
		SO <sub>2</sub> (5)	0.26	1.10
		VOC (5)	0.31	1.35
RTOMSS	RTO Burnout Cycle	CO	2.86	0.32
		NO <sub>x</sub>	2.38	0.29
		PM	3.40	0.41
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.32	0.04
MSS	MSS Activities	CO	45.20	9.05
		NO <sub>x</sub>	7.30	1.46
		PM	3.59	0.13
		SO <sub>2</sub>	0.47	0.09
		VOC	3.35	0.53

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Product of combustion.

Date: March 15, 2017