

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 56613

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**
STKBRLR2	Boiler No. 2	VOC	1.30	5.67
		NO <sub>x</sub>	12.96	56.76
		CO	19.78	86.65
		SO <sub>2</sub>	0.14	0.62
		PM <sub>10</sub>	1.79	7.84
STKBRLR3N	Boiler No. 3N	VOC	1.30	5.67
		VOC (6)	13.00	
		NO <sub>x</sub>	2.16	9.46
		NO <sub>x</sub> (6)	21.60	
		CO	12.96	56.76
		CO (6)	129.60	
		SO <sub>2</sub>	0.14	0.62
		PM <sub>10</sub>	1.79	7.84
CO2VENT	CO2 VENT (5)	NH <sub>3</sub>	0.11	0.48
FUG	Piping Fugitives (4) (7)	VOC	141.60	496.17
RTO	Regenerative Thermal Oxidizer Exhaust Stack (8)	VOC	0.16	0.72
		NO <sub>x</sub>	3.61	15.80
		CO	2.31	10.11
		SO <sub>2</sub>	13.38	58.60
		PM <sub>10</sub>	0.01	0.01
HPFLARE	High Pressure Flare (Pilots Only)	PM <sub>10</sub>	0.01	0.07
		VOC	0.01	0.02
		NO <sub>x</sub>	0.02	0.08
		CO	0.04	0.17
		SO <sub>2</sub>	0.01	0.01

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- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - 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<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
  - CO - carbon monoxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Emissions from EPN CO2VENT authorized until January 1, 2010.
- (6) Emission rate for start-up/shutdown and reduced load (less than 30 percent) conditions.
- (7) Piping fugitives if permit holder constructs pipeline to route waste gas from Amine Unit Still from site via pipeline.
- (8) Emissions if permit holder constructs RTO and routes waste gas from Amine Unit Still Vent to RTO.

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

\_Hrs/day \_Days/week \_Weeks/year or 8,760 Hrs/year

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

Dated December 8, 2008