

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19296

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**
1	Mol. Sieve Heater	NO _x	1.17	5.13
		CO	0.70	
		VOC	0.05	
		PM	0.06	
			0.22	
2	Regen. Heater	NO _x	0.61	2.66
		CO	0.36	
		VOC	0.03	
		PM	0.03	
			0.13	
3	No. 1 Boiler 95MMBtu/hr	NO _x	11.39	
		CO	5.73	
		VOC	0.40	
		PM	0.48	
		SO ₂	1.33	
BLR-21	No. 2 Boiler 81 MMBtu/hr	NO _x	2.84	
		CO	5.79	
		VOC	0.45	
		PM	0.62	
		SO ₂	1.13	
BLR-22	No. 3 Boiler 81 MMBtu/hr	NO _x	2.84	
		CO	5.79	
		VOC	0.45	
		PM	0.62	
		SO ₂	1.13	
3 & BLR-21 & BLR-22	No. 1, 2 and 3 Boilers Combined Annual ***	NO _x		42.98
		CO		39.48
		VOC	2.94	
		PM	3.87	
		SO ₂	8.31	

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			lb/hr	TPY**
4	SRU Incinerator	H ₂ S	0.23	0.10
		SO ₂	0.43	0.20
5	Flare	NO _x	0.03	0.12
		VOC	0.13	0.57
		SO ₂	120.00	34.98
		NH ₃	0.02	0.07
		H ₂ S	1.30	0.37
FUG-6	Plant Fugitives (4)	VOC	5.24	22.95

- (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) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 101.1
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
H₂S - hydrogen sulfide
NH₃ - ammonia
- (4) Fugitive emissions are based on the fugitive component count provided in the application.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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

*** Combined Annual limits were calculated based upon all three boilers operating at maximum firing rates for 2,160 hrs/yr plus EPN 3 and either BLR-21 or BLR-22 firing at 48 MMBtu/hr each for 6,600 hrs/yr.

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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>

Dated July 9, 2002