

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5269A

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**
003	MDEA Reboiler	VOC	0.05	0.21
		NO _x	2.35	10.30
		CO	0.59	2.58
		SO ₂	0.01	0.04
		PM ₁₀ 0.10	0.46	
006	Dehydrator Flare	VOC	0.37	1.61
		NO _x	0.65	2.83
		CO	3.52	15.40
		SO ₂	0.31	1.36
		H ₂ S	<0.01	0.03
		Benzene	0.01	0.01
007	Amine Unit/SRU Flare	VOC	0.13	0.55
		NO _x	0.62	2.69
		CO	3.35	14.70
		SO ₂	0.31	1.36
		H ₂ S	<0.01	0.03
008	Preheater (SRU)	VOC	<0.01	0.93
		NO _x	0.11	0.47
		CO	0.02	0.10
		SO ₂	<0.01	<0.01
		PM ₁₀	<0.01	0.03
009	Reheater (SRU)	VOC	<0.01	0.01
		NO _x	0.05	0.21
		CO	0.01	0.04
		SO ₂	<0.01	<0.01
		PM ₁₀	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
010	Reheater	VOC	<0.01	0.01
		NO _x	0.05	0.21
		SO ₂	<0.01	<0.01
		CO	0.01	0.04
		PM ₁₀	<0.01	0.01
012	Condensate Flare	VOC	0.04	0.20
		NO _x	0.01	0.43
		CO	0.53	2.32
		SO ₂	0.31	1.38
		H ₂ S	<0.01	0.03
		Benzene	<0.01	<0.01
013	Plant Flare (5) (plant in sweet mode)	VOC	1.96	8.49
		NO _x	0.35	1.52
		CO	2.97	12.96
		SO ₂	53.11	232.64
		H ₂ S	0.60	2.61
	Plant Flare (5) (plant in sour mode)	VOC	0.03	0.12
		NO _x	0.13	0.56
		CO	0.69	3.04
		SO ₂	0.92	4.04
		H ₂ S	0.02	0.08
015	Dehydrator Reboiler	VOC	0.01	0.05
		NO _x	0.20	0.88
		CO	0.04	0.18
		SO ₂	<0.01	<0.01
		PM ₁₀	0.01	0.05
017	Auxiliary Boiler	VOC	0.01	0.05
		NO _x	0.22	0.96
		CO	0.04	0.19
		SO ₂	<0.01	0.01
		PM ₁₀	0.01	0.06
018	Reheater (SRU)	VOC	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		NO _x	0.05	0.21
		CO	0.01	0.04
		SO ₂	<0.01	<0.01
		PM ₁₀	<0.01	0.01
019	Thermal Oxidizer (5) (plant in sour mode)	VOC	0.01	0.10
		NO _x	0.42	1.84
		CO	0.08	0.37
		SO ₂	142.0	622.0
		PM ₁₀	<0.01	0.01
		H ₂ S	0.30	1.31
	Thermal Oxidizer (5) (plant in sweet mode)	VOC	1.96	8.49
		NO _x	0.35	1.52
		CO	2.97	12.96
		SO ₂	53.11	232.64
		PM ₁₀	0.01	0.04
		H ₂ S	0.60	2.61
020	Sulfur Pit Vent	H ₂ S	<0.01	0.02
023	Line Heater	VOC	0.01	0.03
		NO _x	0.14	0.61
		CO	0.03	0.12
		SO ₂	<0.01	<0.01
		PM ₁₀	<0.01	0.04
024	Solar Saturn Compressor	VOC	0.02	0.11
		NO _x	3.48	15.20
		CO	1.32	5.78
		SO ₂	0.01	0.02
		PM ₁₀	0.24	1.05
025	Solar Saturn Compressor	VOC	0.02	0.11
		NO _x	3.48	15.20
		CO	1.32	5.78
		SO ₂	0.01	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		PM ₁₀	0.24	1.05
026	Starter Vent	VOC	0.46	0.01
027	Solar Saturn Compressor	VOC	0.02	0.11
		NO _x	3.48	15.20
		CO	1.32	5.78
		SO ₂	0.01	0.02
		PM ₁₀	0.24	1.05
030	Sulfur Truck Loading	PM	<0.01	0.02
		H ₂ S	0.03	0.01
FG-1	Fugitives (4)	VOC	1.13	4.95
		Benzene	0.01	0.04
		H ₂ S 1.97	8.62	

- (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) PM₁₀ - particulate matter less than 10 microns
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
H₂S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only.
- (5) Sweet mode of operation is based on total sulfur feed to the plant being equal to or less than 0.3 long tons per day and sour mode is based on the total sulfur being greater than 0.3 long tons per day. Under no circumstances shall the flare and TGI incinerator operate simultaneously.

* 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

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			<u>lb/hr</u>	<u>TPY</u>

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

Dated _____