AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3956B

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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
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**S-TURB	Existing (10) Turbines	VOC	0.52	2.29
	Solar Saturn T-1200	NO_x	32.62	142.9
	(T-1 through T-8, T-11,	CO	33.8	148.0
	and T-12)	SO ₂	3.94	17.26
		PM_{10}	5.49	24.04
S-T13	New Turbine	VOC	0.17	0.73
	Solar Centaur T-4700	NO_x	8.06	35.32
		CO	5.86	25.65
		SO_2	1.44	6.32
		PM ₁₀	2.01	8.81
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S-T14	New Turbine	VOC	0.17	0.73
	Solar Centaur T-4700	NO _x	8.06	35.32
		CO	5.86	25.65
		SO_2	1.44	6.32
		PM_{10}	2.01	8.81
⊔ 1	Droopes Hoater No. 1	VOC	1 22	E 70
H-1	Process Heater No. 1		1.32	5.79
	(199 MMBtu/hr)	NO_x	8.75	38.33

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
		CO SO ₂ *** PM ₁₀	5.00 12.75 1.25	21.90 55.83 5.48
H-2	Process Heater No. 2 (199 MMBtu/hr)	VOC NO_x CO SO_2^{***} PM_{10}	1.32 8.75 5.00 12.75 1.25	5.79 38.33 21.90 55.83 5.48
**H-3	Process Heater No. 3 (57 MMBtu/hr)	$\begin{array}{c} \text{VOC} \\ \text{NO}_{x} \\ \text{CO} \\ \text{SO}_{2} \\ \text{PM}_{10} \end{array}$	0.30 2.00 1.14 0.03 0.29	1.32 8.74 4.99 0.14 1.25
FL-1	Flare	VOC (6) NO _x CO PM ₁₀	42.86 9.77 19.51 2.49	10.98 15.50 57.34 10.92
**EFWN	Fire Water Engine (5) North Stack	VOC NO_x CO SO_2 PM/PM_{10}	0.17 2.1 0.45 0.014 0.15	0.04 0.53 0.11 0.04 0.04
**EFWS	Fire Water Engine (5) South Stack	$\begin{array}{c} \text{VOC} \\ \text{NO}_{x} \\ \text{CO} \\ \text{SO}_{2} \\ \text{PM/PM}_{10} \end{array}$	0.17 2.1 0.45 0.014 0.15	0.14 0.53 0.11 0.04 0.04
**ESPNAOH	Spent Caustic Tank Vent	VOC	0.77	3.37

Emission	Source A	r Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
**EHOTOIL	Hot Oil Storage Tank	VOC	<0.001	<0.01
**EMEABG	Methy Di-Ethanol Amine Storage Tank	VOC	<0.001	<0.01
**EDEGBG	Di-Ethylene Glycol Storage Ta	nk VOC	<0.001	<0.01
EDEABG	Di-Ethanol Amine Storage Tan	k VOC	<0.001	<0.01
**EDSO	Di-Sulfide Oil Storage Tank	VOC	<0.001	<0.01
**EMEROXI	Process Tank	VOC	0.02	0.098
**EMINALK	Process Tank	VOC	0.02	0.098
**EMEOH	Methanol Storage Tank	VOC	<0.001	<0.01
**ETEGBG	Triethylene Glycol Storage Tar	nk VOC	0.002	0.007
**EMOTOR	Unleaded Gasoline Tank	VOC	0.032	0.14
AMINE-FUG	Amine Area Fugitives (4)	VOC	0.032	0.14
STOR-FUG	Storage Area Fugitives (4)	VOC	0.28	1.21
**DEBUT-FUG	Debutanizer Addition Fugitives Project Fugitives (4)	S VOC	0.075	0.33
PROC-FUG	Plant Process Fugitives (4)	VOC H₂S	0.82 <0.04	3.58 <0.14
TURBIN-FUG	New Turbine Fugitives (4) (T-13 and T-14)	VOC	0.77	3.37

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in 30 Texas Administrative Code (TAC) Section 101.1
 - NO_x total oxides of nitrogen
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - PM particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM_{10} particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - H₂S hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These engines are limited to 500 hours of operation per year.
- (6) Based on a three-hour rolling average.

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

	schedule except as specified in note (5):
	24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year
**	These emissions sources are exempted changes incorporated into this permit pursuant to 30 TAC Section 116.116.(d). Dates and standard exemption or exemption numbers are represented by the company in Attachment A to this table.
***	The combined annual emission rate for Heaters 1 and 2, EPNs H-1 and H-2, shall not exceed 56.46 TPY, which is the total emissions from the sulfur containing sources routed to the heaters

(55.2 TPY) plus the individual contributions from the firing of natural gas (0.63 TPY per heater).

Dated