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.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
**ALLTUR	Existing (10) Turbine Solar Saturn T-1200 (T-1 through T-8, 1	NO_x	0.52 32.62 CO	2.29 142.9 33.8
	and T-12)	SO_2 PM_{10}	3.94 5.49	17.26 24.04
T-13	New Turbine Solar Centaur T-470	VOC NO_{x} CO SO_{2} PM_{10}	0.17 8.06 5.86 1.44 2.01	0.73 35.32 25.65 6.32 8.81
T-14	New Turbine Solar Centaur T-470	VOC 00 NO _x CO SO ₂ PM ₁₀	0.17 8.06 5.86 1.44 2.01	0.73 35.32 25.65 6.32 8.81
E-1 E	Process Heater No. 1 East Stack (137.5 MMBtu/hr)	VOC NO_x CO SO_2 PM_{10}	0.09 2.19 1.25 3.68 0.31	0.39 9.61 5.49 16.12 1.37
E-1 M	Process Heater No. 1 Middle Stack (137.5 MMBtu/hr)	$\begin{array}{c} \text{VOC} \\ \text{NO}_x \\ \text{CO} \\ \text{SO}_2 \\ \text{PM}_{10} \end{array}$	0.09 2.19 1.25 2.81 0.31	0.39 9.61 5.49 12.31 1.37
E-1 W	Process Heater No. 1	VOC	0.09	0.39

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissic</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	West Stack (137.5 MMBtu/hr)	NO_{x} CO SO_{2} PM_{10}	2.19 1.25 2.43 0.31	9.61 5.49 10.64 1.37
E-2 E	Process Heater No. East Stack (137.5 MMBtu/hr)	$\begin{array}{c} 2 & VOC \\ & NO_{\times} \\ & CO \\ & SO_{2} \\ & PM_{10} \end{array}$	0.09 2.19 1.25 1.55 0.31	0.39 9.61 5.49 6.79 1.37
E-2 M	Process Heater No. Middle Stack (137.5 MMBtu/hr)	$\begin{array}{c} 2 & VOC \\ NO_x \\ CO \\ SO_2 \\ PM_{10} \end{array}$	0.09 2.19 1.25 1.3 0.31	0.39 9.61 5.49 5.69 1.37
E-2 W	Process Heater No. West Stack (137.5 MMBtu/hr)	$\begin{array}{ccc} 2 & VOC \\ & NO_x \\ & CO \\ & SO_2 \\ & PM_{10} \end{array}$	0.09 2.19 1.25 1.05 0.31	0.39 9.61 5.49 4.6 1.37
**E-3E	Process Heater No. East Stack (34 MMBtu/hr)	$\begin{array}{c} 3 \qquad VOC \\ NO_x \\ CO \\ SO_2 \\ PM_{10} \end{array}$	0.05 2.38 0.6 0.01 0.24	0.21 10.43 2.61 0.045 1.04
**E-3W	Process Heater No. West Stack (34 MMBtu/hr)	$\begin{array}{c} 3 \qquad VOC \\ NO_x \\ CO \\ SO_2 \\ PM_{10} \end{array}$	0.05 2.38 0.6 0.01 0.24	0.21 10.43 2.61 0.045 1.04
FL-1	Flare	VOC NO_{\times} CO PM_{10}	2.51 3.54 13.09 2.49	10.98 15.5 57.34 10.92

AIR CONTAMINANTS DATA

Emission	Source Air	[·] Contaminant	<u>Emissic</u>	n Rates
* - Doint No. (1)	Nama (2)	Nama (2)	Th/hn	TPY
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	<u> </u>
**EFWN	Fire Water Engine (5)	VOC	0.17	0.04
	North Stack	NO_x	2.1	0.53
		CO	0.45	0.11
		SO ₂	0.014	0.04
**E-L'IC	Fine Water Fraince (F)	PM/PM_{10}	0.15	0.04
**EFWS	Fire Water Engine (5) South Stack	VOC	0.17 2.1	0.14
	South Stack	NO _x CO	0.45	0.53 0.11
		SO ₂	0.43	0.11
		PM/PM ₁₀	0.15	0.04
		,	0.123	0.0.
**ESPNOAH	Spent Caustic Tank Vent	VOC	0.77	3.37
**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 Stor <0.01	age Tank	VOC	<0.001
EDEABG	Di-Ethanol Amine Storag	e Tank	VOC	<0.001
**EDSO	Di-Sulfide Oil Storage <0.01	Tank	VOC	<0.001
**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 Stor	age Tank	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) 1.21	VOC	0.28
**DEBUT-FUG	Debutanizer Addition Fugitives 0.33 Project Fugitives (4)	VOC	0.075
PROC-FUG	Plant Process Fugitives (4) 3.58	VOC	0.82
	H ₂ S	<0.04	<0.14
TURBIN-FUG	New Turbine Fugitives (4) 3.37 (T-13 and T-14)	VOC	0.77

- (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 General Rule 101.1
 - NO_x total oxides of nitrogen
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - PM particulate matter, suspended in the atmosphere, including PM_{10} .
 - 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.

39	following maximum operating schedule except as specified in note (5):
Hrs	<u>24 </u>
**	These emissions sources are exempted changes incorporated into this permit pursuant to 30 TAC Section 116.116.(d). Dates and standard exemption/exemption numbers are represented by the company in Attachment A to this table.
	Dated