#### Permit Number 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 Contamina	ant <u>Emi</u> s	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
ALLTUR	10 Turbines and 1 Spare Solar Saturn T-1200 (T-1 through T-8, T-11, and T-12)	CO NO <sub>x</sub> PM <sub>10</sub> SO <sub>2</sub> VOC 0.52	33.80 32.62 5.49 3.94 2.29	2 142.87 2 24.04 4 17.26	
CAN-DEGASS	Aerosol Can Degassing U	nit VOC	0.25	0.10	
CT-1	Cooling Tower 1	PM/PM <sub>10</sub> VOC (8)	0.99 1.68		
CT-2	Cooling Tower 2	PM/PM <sub>10</sub> VOC (8)	1.24 1.26		
CT-3	Cooling Tower 3	PM/PM <sub>10</sub> VOC (8)	1.57 1.03		
DEGREASE	Degreasing Unit	VOC	0.04	0.19	
E-1E, E-1M and E-1W	Heater H-1 (199 MMBtu/hr)	$\begin{array}{c} \text{CO} \\ \text{NO}_{x} \\ \text{PM}_{10} \\ \text{SO}_{2}(4) \\ \text{VOC}  1.07 \end{array}$	3.98 6.97 1.00 8.92 4.44	7 28.82 0 4.12 2 38.78	
E-2E, E-2M and E-2W	Heater H-2 (199 MMBtu/hr)	$\begin{array}{c} \text{CO} \\ \text{NO}_{x} \\ \text{PM}_{10} \\ \text{SO}_{2} \ (4) \\ \text{VOC}  1.07 \end{array}$	3.98 6.97 1.00 8.92 4.44	7 28.82 0 4.12 2 38.78	

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
E-3E and E-3W	Heater H-3		CO	3.21	12.26
	(39 MMBtu/hr)		$NO_x$	3.82	14.60
	,		$PM_{10}$	0.29	1.11
			SO <sub>2</sub>	0.22	0.85
		VOC	0.21	0.80	
EG-1	Emergency Generator (6)		СО	0.70	0.30
		$NO_x$	0.43	0.18	
		$PM_{10}$	0.01	0.01	
		SO <sub>2</sub>	0.01	0.01	
		VOC	0.01	0.01	
ETEG-1	TEG Still Vent No. 1		VOC	1.35	5.93
ETEG-2	TEG Still Vent No. 2		VOC	0.39	1.73
FL-1	Flare		CO	9.57	0.76
	(Normal Operation Only)		$NO_x$	4.79	0.38
		$SO_2$	0.01	0.01	
			VOC	20.00	0.15
	(Startup, Shutdown and	СО	20.95	0.09	
	Maintenance Emissions C	,	$NO_x$	10.49	0.05
		$SO_2$	0.02	0.01	
			VOC	38.01	0.18
FW-2	Fire Water Engine (5)		CO	3.07	0.31
			$NO_x$	14.30	1.43
		$PM_{10}$	1.01	0.10	
			SO <sub>2</sub>	0.33	0.03
		VOC	1.16	0.12	
LOAD	Loading		VOC	1.57	0.02

Emission	Source	Air Contaminant	Emission	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
OILVT-1	Lube Oil Vent No. 1	VOC	0.08	0.35	
OILVT-2	Lube Oil Vent No. 2	VOC	0.08	0.35	
OILVT-3	Lube Oil Vent No. 3	VOC	0.08	0.35	
OILVT-4	Lube Oil Vent No. 4	VOC	0.08	0.35	
OILVT-5	Lube Oil Vent No. 5	VOC	0.08	0.35	
OILVT-6	Lube Oil Vent No. 6	VOC	0.08	0.35	
OILVT-7	Lube Oil Vent No. 7	VOC	0.08	0.35	
OILVT-8	Lube Oil Vent No. 8	VOC	0.08	0.35	
OILVT-11	Lube Oil Vent No. 11	VOC	0.08	0.35	
OILVT-12	Lube Oil Vent No. 12	VOC	0.08	0.35	
OILVT-13	Lube Oil Vent No. 13	VOC	0.08	0.35	
OILVT-14	Lube Oil Vent No. 14	VOC	0.08	0.35	
S-T13	Turbine Solar Centaur T-4700	$\begin{array}{c} \text{CO} \\ \text{NO}_{x} \\ \text{PM}_{10} \\ \text{SO}_{2} \\ \text{VOC}  0.17 \end{array}$	5.86 8.06 2.01 1.44 0.73	25.65 35.32 8.81 6.32	
S-T14	Turbine Solar Centaur T-4700	$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC 0.17$	5.86 8.06 2.01 1.44 0.73	25.65 35.32 8.81 6.32	

Emission	Source	Air Contaminant	Contaminant <u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
SV-1	Tank SV-1	VOC	0.96	0.12
SV-3	Tank SV-3	VOC	0.03	0.01
SV-4	Tank SV-4	VOC	4.80	4.33
SV-5	Tank SV-5	VOC	10.14	0.01
SV-7	Tank SV-7	VOC	0.01	0.01
SV-41	Tank SV-41	VOC	0.09	0.01
SV-50	Tank SV-50	VOC	4.80	2.70
SV-51	Tank SV-51	VOC	0.96	0.14
SV-56	Tank SV-56	VOC	0.02	0.01
SV-58	Tank SV-58	VOC	0.01	0.01
SV-59	Tank SV-59	VOC	0.01	0.01
SV-60	Tank SV-60	VOC	0.01	0.01
PLANT-FUG	Plant Process Fugitives (7)	VOC	5.93	25.96

- (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) CO carbon monoxide
  - NO<sub>x</sub> total oxides of nitrogen
  - PM particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
  - $PM_{10}$  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.
  - SO<sub>2</sub> sulfur dioxide
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Short-term and annual SO<sub>2</sub> emissions are based on the assumption that <u>all</u> acid gas and Merox vent streams (including MINALK related vent streams) are routed to either Heater Nos. 1 or 2. This is the worst case SO<sub>2</sub> emission scenario for each heater and SO<sub>2</sub> emission rate from each heater can not emit at the same time from Heater Nos. H-1 and H-2.
- (5) This engine is limited to <u>200</u> hours of operation per year.
- (6) Maximum operating hours for the emergency generator will not exceed 10 percent (<u>876</u> hours) of the normal <u>8,760</u> hour annual operating time.
- (7) Plant fugitives include Amine Area, Storage Area, Debutanizer, Turbine, and Plant Process fugitives. The fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
  - \* Emission rates are based on and the facilities are limited by the following maximum operating schedule except as specified in note (5):

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24	Hrs/day	7	Days/week	52	Weeks/	vear

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

Dated <u>June 8, 2006</u>