Permit No. 3150

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) TPY	Name (2)	Name (3)	lb/hr	
AMINE or AMINE-1	Amine Unit Heater 10 MMBtu/hr (5)	VOC NO_x SO_2 PM CO	0.06 1.40 0.14 0.14 0.35	0.26 6.12 0.62 0.60 1.53
BOILER 1	Process Steam Boiler 13.6 MMBtu/hr	VOC NO _x SO ₂ PM CO	0.08 1.89 0.19 0.10 0.47	0.34 8.30 0.85 0.44 2.08
BOILER 2	Process Steam Boiler 13.6 MMBtu/hr	VOC NO_x SO_2 PM CO	0.08 1.89 0.19 0.10 0.47	0.34 8.30 0.85 0.44 2.08
BORN1	Gas Heater 24.48 MMBTU/hr	VOC NO_x SO_2 CO PM	0.14 3.43 0.35 0.86 0.18	0.61 15.02 1.52 3.77 0.80
C-FLARE	Condenser Flare	VOC NO _x SO ₂	0.69 0.13 0.68	3.02 0.56 2.98

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr
TPY			
		H_2S	0.01 0.04
		CO	0.25 1.12

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
* Point No. (1) TPY	Name (2)	Name (3)	lb/hr	
D103301	Emergency Gas Flare	EMERGENCY/UPSET	USE ONLY	
D103302	Acid Gas Flare	NO_{x} SO_{2} $H_{2}S$ CO	0.68 62.97 0.67 5.84	2.98 275.81 2.93 25.58
D11101A	Solar Saturn Turbine 1,250 hp	VOC NO_x SO_2 CO	0.22 4.30 0.19 2.51	0.96 18.80 0.84 10.97
D11101B	Solar Saturn Turbine 1,250 hp	VOC NO _x SO ₂ CO	0.22 4.30 0.19 2.51	0.96 18.80 0.84 10.97
D40101	Solar Centaur Turbine 4,500 hp	VOC NO _x SO ₂ CO	0.79 17.64 0.59 9.02	3.47 77.28 2.60 39.51
D40102	Solar Centaur Turbine 4,500 hp	VOC NO _x SO ₂ CO	0.79 17.64 0.59 9.02	3.47 77.28 2.60 39.51
D40103	Solar Centaur Turbine 4,500 hp	VOC NO _x SO ₂ CO	0.79 17.64 0.59 9.02	3.47 77.28 2.60 39.51
D40104	Solar Centaur Turbine 4,500 hp	VOC NO _x	0.79 17.64	3.47 77.28

Emission	Source	Air Contaminant	<u>Emissic</u>	on Rates
* Point No. (1) TPY	Name (2)	Name (3)	lb/hr	
		SO ₂ CO	0.59 9.02	2.60 39.51
D40105	Solar Centaur Turbine 4,500 hp	VOC NO _x SO ₂ CO	0.79 17.64 0.59 9.02	3.47 77.28 2.60 39.51
D40106	Solar Centaur Turbine 4,500 hp	VOC NO _x SO ₂ CO	0.79 17.64 0.59 9.02	3.47 77.28 2.60 39.51
GLYCOL	Glycol Reboiler 4.6 MMBtu/hr	VOC NO _x SO ₂ PM CO	0.03 0.64 0.07 0.06 0.16	0.12 2.81 0.29 0.28 0.71
HR1502	Heater 12.24 MMBTU/hr	VOC NO_x SO_2 CO PM	0.07 1.71 0.17 0.43 0.09	0.31 7.49 0.76 1.87 0.40
K1A	Cooper Compressor Eng 835 hp	ine VOC NO _x SO ₂ CO	0.81 20.23 0.10 2.60	3.55 88.69 0.44 11.29
K1B	Cooper Compressor Eng 835 hp	ine VOC NO _x SO ₂ CO	0.81 20.23 0.10 2.60	3.55 88.69 0.44 11.29

Emission *	Source	Air	Contaminant	<u>Emissio</u>	n Rates
Point No. (1) TPY	Name (2)		Name (3)	lb/hr	
K1C	Cooper Compressor 835 hp	Engine	VOC NO _x SO ₂ CO	0.81 20.23 0.10 2.60	3.55 88.69 0.44 11.29
K2A	Cooper Compressor 250 hp	Engine	VOC NO _x SO ₂ CO	0.24 6.06 0.03 0.77	1.05 26.53 0.13 3.38
К2В	Cooper Compressor 300 hp	Engine	VOC NO _x SO ₂ CO	0.29 7.27 0.04 0.93	1.27 31.84 0.18 4.05
КЗА	Cooper Compressor 800 hp	Engine	VOC NO _x SO ₂ CO	0.80 19.80 0.10 2.60	3.50 86.70 0.44 11.20
КЗВ	Cooper Compressor 800 hp	Engine	VOC NO _x SO ₂ CO	0.80 19.80 0.10 2.60	3.50 86.70 0.44 11.20
K4A	Cooper Compressor 650 hp	Engine	VOC NO _x SO ₂ CO	0.63 15.80 0.08 2.00	2.76 69.04 0.35 8.79
K4B	Cooper Compressor 650 hp	Engine	VOC NO _x SO ₂	0.60 15.80 0.08	2.76 69.04 0.35

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates
* Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY (2)	Hame (2)	rraine (5)	12, 111	_
		CO	2.00	8.79
K5A	Cooper Compressor Engi	ine VOC	0.80	3.50
	800 hp	NO_{\times}	19.80	86.70
		SO ₂	0.10	0.42
		CO	2.60	11.20

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1) TPY	Name (2)	Name (3)	lb/hr	
STILL	Auxiliary Heater 12.24 MMBTU/hr	VOC NO_x SO_2 CO PM	0.07 1.71 0.17 0.43 0.09	0.31 7.49 0.76 1.87 0.40
WHECO	Gas Heater 35 MMBTU/hr	VOC NO _x SO ₂ CO PM	0.20 4.90 0.50 1.20 0.26	0.89 21.42 2.18 5.36 1.14
FUG	Fugitives (4)	VOC	2.07	9.05

- (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

SO₂ - sulfur dioxide

H₂S - hydrogen sulfide

PM - particulate matter

CO - carbon monoxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Only one amine reboiler unit shall be operated at a time.
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

	Hrs/day	Days/week	Weeks/year or _	8,760
Hrs/year				

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr
TDV			

Dated ____