

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
D103301	Emergency Gas Flare					
D103302	Acid Gas Flare		NOx	1.0	4.38	
			SO2	83.3	275.8	
			CO	3.69	16.17	
			H2S	0.6	2.9	
D11101A	Solar Saturn Turbine 1250hp		NOx	4.30	18.8	
			CO	2.51	10.97	
			VOC	0.22	0.96	
			SO2	0.19	0.84	
D11101B	Solar Saturn Turbine 1250hp		NOx	4.30	18.8	
			CO	2.51	10.97	
			VOC	0.22	0.96	
			SO2	0.19	0.84	
K1A	Cooper Compressor Engine 835hp		NOx	20.23	88.69	
			CO	2.6	11.29	
			VOC	0.08	3.55	
			SO2	0.1	0.44	
K1B	Cooper Compressor Engine 835hp		NOx	20.23	88.69	
			CO	2.6	11.29	
			VOC	0.80	3.55	
			SO2	0.1	0.44	
K1C	Cooper Compressor Engine 835hp		NOx	20.23	88.69	
			CO	2.6	11.29	
			VOC	0.08	3.55	
			SO2	0.1	0.44	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
K2A	Cooper Compressor Engine 250hp	NOx	6.06	26.53
		CO	0.77	3.38
		VOC	0.24	1.06
		SO2	0.03	0.13
K2B	Cooper Compressor Engine 300hp	NOx	7.27	31.84
		CO	0.93	4.05
		VOC	0.29	1.27
		SO2	0.04	0.16
K3A	Cooper Compressor Engine 800hp	NOx	19.8	86.7
		CO	2.6	11.2
		VOC	0.8	3.5
		SO2	0.1	0.42
K3B	Cooper Compressor Engine 800hp	NOx	19.8	86.7
		CO	2.6	11.2
		VOC	0.8	3.5
		SO2	0.1	0.42
K4A	Cooper Compressor Engine 650hp	NOx	15.8	69.04
		CO	2.00	8.79
		VOC	0.60	2.76
		SO2	0.08	0.34
K4B	Cooper Compressor Engine 650hp	NOx	15.8	69.04
		CO	2.00	8.79
		VOC	0.60	2.76
		SO2	0.08	0.34
K5A	Cooper Compressor Engine 800hp	NOx	19.8	86.7
		CO	2.6	11.2
		VOC	0.8	3.5
		SO2	0.1	0.42

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
WHECO	Gas Heater 35MMBtu/hr	NOx	4.90	21.42
		CO	1.20	5.36
		VOC	0.2	0.89
		SO2	0.5	2.18
		PM	0.26	1.14
BORN 1	Gas Heater 24.48MMBtu/hr	NOx	3.43	15.02
		CO	0.86	3.77
		VOC	0.14	0.61
		SO2	0.35	1.52
		PM	0.18	0.80
HR1502	Heater 12.24MMBtu/hr	NOx	1.71	7.49
		CO	0.43	1.87
		VOC	0.07	0.31
		SO2	0.17	0.76
		PM	0.09	0.40
STILL	Auxiliary Heater 12.24MMBtu/hr	NOx	1.71	7.49
		CO	0.43	1.87
		VOC	0.07	0.31
		SO2	0.17	0.76
		PM	0.09	0.40
BOILER 1	Process Steam Boiler 13.6MMBtu/hr	NOx	1.89	8.30
		CO	0.47	2.08
		VOC	0.08	0.34
		SO2	0.19	0.85
		PM	0.10	0.44
BOILER 2	Process Steam Boiler 13.6MMBtu/hr	NOx	1.89	8.30
		CO	0.47	2.08
		VOC	0.08	0.34
		SO2	0.19	0.85
		PM	0.10	0.44

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
AMINE	Amine Unit Heater 10MMBtu/hr	NOx	1.40	6.11
		CO	0.35	1.53
		VOC	0.06	0.25
		SO2	0.14	0.62
		PM	0.08	0.33
GLYCOL	Glycol Reboiler 3.3MMBtu/hr	NOX	0.46	2.02
		CO	0.12	0.50
		VOC	0.02	0.08
		SO2	0.05	0.21
		PM	0.03	0.11
GLYCOL VAPOR VENT		VOC		26.0
Fugitives (4)		VOC		19.12

### STANDARD EXEMPTED FACILITIES

N.B.- All facilities listed below are authorized under standard exemption and have not undergone a best available control technology review. The number in brackets following the EPN indicates the exemption no. of the facility.

D40101 [X-23726]	Solar Centaur Turbine 4500hp	NOx	17.64	77.28
		CO	9.02	39.51
		VOC	0.79	3.47
		SO2	0.59	2.6
D40102 [X-23727]	Solar Centaur Turbine 4500hp	NOx	17.64	77.28
		CO	9.02	39.51
		VOC	0.79	3.47
		SO2	0.59	2.6
D40103 [X-23732]	Solar Centaur Turbine 4500hp	NOx	17.64	77.28
		CO	9.02	39.51
		VOC	0.79	3.47
		SO2	0.59	2.6

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
D40104 [X-23733]	Solar Centaur Turbine 4500hp	NOx	17.64	77.28
		CO	9.02	39.51
		VOC	0.79	3.47
		SO2	0.59	2.6
D40105 [X-23734]	Solar Centaur Turbine 4500hp	NOx	17.64	77.28
		CO	9.02	39.51
		VOC	0.79	3.47
		SO2	0.59	2.6
D40106 [X-23735]	Solar Centaur Turbine 4500hp	NOx	17.64	77.28
		CO	9.02	39.51
		VOC	0.79	3.47
		SO2	0.59	2.6

- (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.

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

(3) PM - particulate matter

PM10 - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NOx - total oxides of nitrogen

SO2 - sulfur dioxide

CO - carbon monoxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

Dated\_\_\_\_\_