

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20205

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	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
GC-100	Waukesha 2,587 bhp Natural Gas-Fired Compressor Engine	CO	14	62
		NO <sub>x</sub>	8.5	37
		VOC	2.3	10
		SO <sub>2</sub>	0.012	0.052
GC-200	Waukesha 2,587 bhp Natural Gas-Fired Compressor Engine	CO	14	62
		NO <sub>x</sub>	8.5	37
		VOC	2.3	10
		SO <sub>2</sub>	0.012	0.052
GC-300	Waukesha 2,587 bhp Natural Gas-Fired Compressor Engine	CO	14	62
		NO <sub>x</sub>	8.5	37
		VOC	2.3	10
		SO <sub>2</sub>	0.012	0.052
GC-400	Caterpillar 3,335 bhp Natural Gas-Fired Compressor Engine	CO	14	61
		NO <sub>x</sub>	5.1	23
		VOC	2.1	9.0
		SO <sub>2</sub>	0.015	0.066
GC-500	Caterpillar 3,335 bhp Natural Gas-Fired Compressor Engine	CO	14	61
		NO <sub>x</sub>	5.1	23
		VOC	2.1	9.0
		SO <sub>2</sub>	0.015	0.066
GC-600	Wartsila 7,605 bhp Natural Gas-Fired Compressor Engine	CO	11.73	51.36
		NO <sub>x</sub>	11.73	51.36
		VOC	6.69	29.3

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

		SO <sub>2</sub>	0.03	0.14
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Total emissions from all six natural gas-fired compressor engines or any combination of these engines are as follows:

	Natural Gas-Fired Compressor Engines	CO	163.6	
		NO <sub>x</sub>	94.6	
		VOC	35	
		SO <sub>2</sub>	0.19	
R-610	Glycol Reboiler	CO	0.052	0.23
		NO <sub>x</sub>	0.25	1.1
		VOC	0.010	0.042
		SO <sub>2</sub>	0.001	0.007
		PM	0.030	0.13
R-620	Glycol Reboiler	CO	0.052	0.23
		NO <sub>x</sub>	0.25	1.1
		VOC	0.010	0.042
		SO <sub>2</sub>	0.001	0.007
		PM	0.030	0.13
R-630	Glycol Reboiler	CO	0.052	0.23
		NO <sub>x</sub>	0.25	1.1
		VOC	0.010	0.042
		SO <sub>2</sub>	0.001	0.007
		PM	0.030	0.13
R-611	Glycol Condenser	VOC	23.42	70.6
R-621	Glycol Condenser	VOC	23.42	70.6
R-631	Glycol Condenser	VOC	23.42	70.6

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
MIP-100	Methanol Injection Pump	VOC	0.072	0.011

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
MIP-200	Methanol Injection Pump	VOC	0.072	0.011
MIP-300	Methanol Injection Pump	VOC	0.072	0.011
D-680	Triethylene Glycol Tank	VOC	0.102	0.01
D-940A	Storm Water Tank	VOC	<0.01	<0.01
D-950	Ethylene Glycol Tank	VOC	<0.01	<0.01
D-960	Lube Oil Tank	VOC	<0.01	<0.01
D-966	Lube Oil Tank	VOC	<0.01	<0.01
D-940B	Storm Water Tank	VOC	<0.01	<0.01
D-980	Diesel Tank (5)	VOC	0.09	<0.01
F-1	Truck Loading Fugitives (4)	VOC	0.024	0.018
F-2	Plant Fugitives (4)	VOC	0.31	1.4
CAT	Diesel Pump Engine (5)	CO	3.3	14
		NO <sub>x</sub>	4.1	18
		VOC	0.93	4.1
DG-1	Standby Generator Engine (5)	CO	2.4	0.38
		NO <sub>x</sub>	11	1.8
		VOC	0.92	0.14
		SO <sub>2</sub>	0.75	0.12
		PM	0.81	0.13

BLD-VENT Compressor Purge Vent \*\*

- (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  
VOC - volatile organic compounds as defined in General Rule 101.1  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - 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.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These sources are authorized by standard exemption.

\* 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

\*\* Emissions occur during upset conditions only.

Dated