

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2466

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 Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
E10C021	Steam Superheater	VOC	0.10	0.30
		NO _x	2.60	11.60
		SO ₂	0.30	1.10
		PM	0.05	0.30
		CO	0.61	2.30
E10N002	Catalytic Incinerator	VOC	0.01	0.10
		NO _x	0.18	0.80
		SO ₂	0.05	0.20
		PM	0.01	0.10
		CO	4.22	18.50
E10C006	Methane Compressor No. 11 4.40	VOC		1.00
		NO _x	4.85	21.24

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
		SO ₂	0.20	0.70
		CO	7.28	31.87
E10C007	Methane Compressor No. 13 4.40		VOC	1.00
		NO _x	4.85	21.24
		SO ₂	0.20	0.70
		CO	7.28	31.87
E10C008	PSA K-Gas Compressor No. 6 4.40		VOC	1.00
		NO _x	4.85	21.24
		SO ₂	0.20	0.70
		CO	7.28	31.87
E10C009	PSA K-Gas Compressor No. 8 4.40		VOC	1.00
		NO _x	4.85	21.24
		SO ₂	0.20	0.70
		CO	7.28	31.87
E10C010	PSA K-Gas Compressor No. 12 4.40		VOC	1.00
		NO _x	4.85	21.24
		SO ₂	0.20	0.70
		CO	7.28	31.87
E10C061	PSA K-Gas Compressor No. 4 9.70		VOC	2.20
		NO _x	4.85	21.24
		SO ₂	0.20	0.70
		CO	7.28	31.87
*E10C060	Syn Gas Flare - Flared Process Emission (Flash Gas)	CO	0.06	0.30

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			lb/hr	TPY
	Syn Gas Flare - Flared Start-up Emission	NO _x CO	16.72 210.78	0.28 2.65
E10C062	Start-up Flare "A"	CO NO _x	21.10 1.67	0.05 0.01
E10C063	Start-up Flare "B"	CO NO _x	21.10 1.67	0.05 0.01
F10C007	Membrane Fugitives Permeate 6.60		CO	1.51
	Membrane Fugitives (4) (Non-Permeate)	CO	0.81	3.60
F10C009	Natural Gas Fuel Fugitives (4) 0.70		VOC	0.16
F10C008	Natural Gas Fuel Fugitives (4) 1.00		VOC	0.22
F10C010	Syn Gas Product Fugitives (4) 4.34		CO	0.99
F10C001-04	Raw Gas Piping Fugitives (4) 14.10		CO	3.22
F10C001-05	Final Syn Gas Piping Fugitives (4) 4.81		CO	1.10
F10C001-01	K-Gas Piping Fugitives (4) 12.03		CO	2.75

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			lb/hr	TPY
F10N001-01	Catalytic Incinerators Fugitives (4)	CO	0.01	0.04
F10C005	MEA Heavy Liquid Fugitives (4) 3.59		VOC	0.82
E10C034	Start-up Vent-Train A	CO NO _x	0.04 0.20	0.005 0.024
E10C035	Start-up Vent-Train B	CO NO _x	0.04 0.20	0.005 0.024

(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

SO₂ - sulfur dioxide

NO_x - total oxides of nitrogen

CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall

be assumed that no particulate matter greater than 10 microns is emitted.

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

* The emissions are based on the contributions from the Syn Gas Unit to the Syn Gas Flare.

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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>

* 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_____