

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19663

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	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
33060	Large Oil Storage Tank Vent 0.10		VOC	0.31
COMP1	No. 1 Poly Compressor West Stack	VOC	0.01	0.04
COMP2	No. 1 Poly Compressor East Stack	VOC	0.01	0.04
COMP3	No. 2 Poly Compressor West Stack	VOC	0.01	0.04
COMP4	No. 2 Poly Compressor East Stack	VOC	0.01	0.04
COMP5	No. 1 Vent Gas Compressor West Stack	VOC	0.13	0.57
COMP6	No. 1 Vent Gas Compressor East Stack	VOC	0.13	0.57
COMP7	No. 3 Vent Gas Compressor Stack	VOC	0.26	1.14
COMP8	No. 3 Recip Compressor West Stack	VOC	0.01	0.04
COMP9	No. 3 Recip Compressor East Stack	VOC	0.01	0.04

COMP10	No. 4 Recip Compressor West Stack	VOC	0.01	0.04
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COMP11	No. 4 Recip Compressor East Stack	VOC	0.01	0.04
COMP12	No. 5 Recip Compressor West Stack	VOC	0.01	0.04
COMP13	No. 5 Recip Compressor East Stack	VOC	0.01	0.04
EPFUG	EPR Unit Fugitives (4)	VOC	17.60	77.09
FLARE1	Waste Gas Flare	VOC	9.65	13.68
		NO _x	1.21	1.72
		CO	6.19	8.76
M	M Line Vent	VOC (5)	14.80	36.44
		PM ₁₀	0.15	0.65
N	N Line Vent	VOC (5)	18.00	34.13
		PM ₁₀	0.27	1.16
TK-2D-1C	Fresh ENB Tank Vent	VOC	1.52	0.10
TK-2D-2C	No. 2 Oil Feed Tank	VOC	0.31	0.01
TK-2D-3C	Recycle ENB Tank Vent	VOC	0.19	0.03
TK-2D-15D	Intermediate Tank Vent	VOC	24.90	2.64

TK-2D-5E	Wet Cyclohexane Tank Vent	VOC	17.40	4.41
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			lb/hr	TPY
TK-2D-6E	In-Process Heavies Tank Vent 1.66	VOC		17.40
TK-2D-7E	No. 1 Oil Feed Tank	VOC	0.31	0.71
TK-2D-22E	Dry Cyclohexane Tank Vent	VOC	12.60	4.32
TK-2D-14G	Catalyst Knockout Tank Vent 2.93	VOC		16.70
WCT-32	Cooling Tower	VOC	0.50	1.66
EPFUG2	Refrigeration System Fugitives (4) 0.08		NH ₃	0.02
WWFUG	Wastewater	VOC	0.03	0.03

(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

PM₁₀ - particulate matter (PM) 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.

CO - carbon monoxide

NH₃ - ammonia

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The total combined VOC emissions from Lines M and N shall not exceed 36.44 TPY.

* 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

Dated_____