

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 865A

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>
Incinerator	Incinerator	NO _x	4.6	20.0
		CO	2.25	9.9
		VOC	0.06	0.24
		SO ₂	139	608
		PM ₁₀	1.55	6.79
		H ₂ S	0.10	0.44
		Cl ₂	1.0	<0.01
H202	Oil Heater	NO _x	4.4	19.3
		CO	1.1	4.82
		VOC	0.08	0.37
		SO ₂	3.12	13.68
		SO ₃	0.04	0.19
		PM ₁₀	0.44	1.93
H202	Oil Heater	NO _x	4.4	19.3
		CO	1.1	4.82
		VOC	0.08	0.37
		SO ₂	3.12	13.68
		SO ₃	0.04	0.19
		PM ₁₀	0.44	1.93
D307	Tank D-307	VOC	0.05	0.18
D2307	Tank D-2307	VOC	0.05	0.18
D310	Tank D-310	VOC	0.07	0.31
D215	Tank D-215	VOC	0.012	<0.01

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u> lb/hr		<u>TPY</u>
D398	Diesel Tank D-398	VOC	0.02	<0.01
D399	Diesel Tank D-399	VOC	3.07	0.15
D3191A	Diesel Tank 3191A	VOC	0.03	<0.01
D3191B	Diesel Tank 3191B	VOC	0.03	<0.01
BMT-1E	Fugitives (4) BMT-1 EtSH Production	Diethyl Sulfide	<0.01	0.02
		Diethyl Disulfide	<0.01	<0.01
		Ethyl Mercaptan	0.08	0.35
		Ethylene	2.65	11.61
		Propane	0.16	0.71
		VOC total	2.94	12.74
		H ₂ S	0.05	0.21
		Carbon Disulfide	<0.01	<0.01
		Carbonyl Sulfide	0.01	0.04
BMT-1M	Fugitives (4) <0.01 Train I - MeSH Production	Dimethyl Disulfide		<0.01
		Dimethyl Sulfide	<0.01	0.02
		Methyl Mercaptan	0.10	0.42
		Methanol	<0.01	<0.01
		VOC total	0.28	1.23
		H ₂ S	0.05	0.21
		Carbon Disulfide	<0.01	<0.01
		Carbonyl Sulfide	0.01	0.04
		Propane	0.16	0.71
BMT-2M	Fugitives (4) <0.01 Train II - Methyl 0.06 Mercaptan Production <0.01	Carbon Disulfide		<0.01
		Carbonyl Sulfide		0.01
		Dimethyl Sulfide	<0.01	0.04
		Dimethyl Disulfide		<0.01

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		Methyl Mercaptan	0.07	0.32
		Methanol	0.05	0.21
		Propane	0.49	2.14
		H ₂ S	0.11	0.49
		VOC total	0.64	2.79
Fug-Incin	Incinerator Fugitives (4) 0.08	VOC		0.02
		H ₂ S	<0.01	<0.01
WWTP	Wastewater Fugitives (4) 0.5	VOC		0.12
		H ₂ S	0.05	0.20
FlareFug	Flare Area Fugitives (4) 0.06	VOC		0.01
MEOHSCBR	Methanol Scrubber	VOC	1.19	5.20
		H ₂ S	0.12	0.54
RCSHIP	RC Shipping Area Fugitives (4) 4.27	VOC		0.97
		H ₂ S	<0.01	<0.01
RUNDOWN	Rundown Tank Fugitives (4) 0.93	VOC		0.21
		H ₂ S	<0.01	<0.01
STORAGE	Storage Tank Fugitives (4) 10.40	VOC		2.37
SWS	Sour Water Stripper Fugitives (4) 0.13	VOC		0.03

		H ₂ S	0.09	0.41
TTSHIP	TT Shipping Area Fugitives (4) 2.43	VOC		0.55
DMS	Dimethyl Sulfide Area Fugitives (4)	VOC	0.06	0.25

(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) PM₁₀ - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

Cl₂ - chlorine

SO₃ - sulfur trioxide

H₂S - hydrogen sulfide

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

(5) Flare is designed to control plant vents only during emergency operations, maintenance, plant start-ups and plant shutdowns.

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

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Emission * _____	Source	Air Contaminant	Emission Rates
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
	Hrs/day _____ Days/week _____ Weeks/year _____	or Hrs/year	8,760

Dated _____