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 Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
Incinerator	Incinerator (5)	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_2S	0.10	0.44
		Cl_2	1.0	<0.01
H2202	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

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Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
D215	Tank D-215	VOC	0.012	<0.01
D398	Diesel Tank D-398	VOC	0.02	<0.01
D399	Gasoline Tank D-399	VOC	4.56	0.22
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_2S	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_2S	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) Train II - Methyl Mercaptan Production	Carbon Disulfide	<0.01	<0.01
		Carbonyl Sulfide	0.01	0.06
		Dimethyl Sulfide	<0.01	0.04
		Dimethyl Disulfide		<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
	<0.01			
		Methyl Mercaptan	0.07	0.32
		Methanol	0.05	0.21
		Propane	0.49	2.14
		H_2S	0.11	0.49
		VOC total	0.64	2.79
Fug-Incin	Incinerator Fugitives (4)	VOC		0.02
	0.08			
		H_2S	<0.01	<0.01
WWTP	Wastewater Fugitives (4)	VOC		0.12
	0.5			
		H_2S	0.05	0.20
FlareFug	Flare Area Fugitives (4)	VOC		0.01
	0.06			
MEOHSCBR	Methanol Scrubber	VOC	1.19	5.20
		H_2S	0.12	0.54
RCSHIP	RC Shipping Area Fugitives (4)	VOC		0.97
	4.27			
		H_2S	<0.01	<0.01
RUNDOWN	Rundown Tank Fugitives (4)	VOC		0.21
	0.93			
		H_2S	<0.01	<0.01
STORAGE	Storage Tank Fugitives (4)	VOC		2.37
	10.40			
SWS	Sour Water Stripper Fugitives (4)	VOC		0.03
	0.13			

		H_2S	0.09	0.41
TTSHIP	TT Shipping Area Fugitives (4)	VOC	0.55	2.43
DMS	Dimethyl Sulfide Area Fugitives (4)	VOC	0.06	0.25
Flare	Plant Flare, H-225	TRS	64.11	3.74
		VOC	2.34	0.24
		SO_2	5054.0	358.46
		CO	222.53	15.98
		NO_x	25.95	1.86
		H_2S	14.76	1.95

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(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) TRS - total reduced sulfur (excluding SO_2 and H_2S)
PM_{10} - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
H_2S - hydrogen sulfide
Cl_2 - chlorine

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

SO_3 - sulfur trioxide

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

(5) The thermal oxidizer shall operate with no less than 99.9 percent efficiency in destructing the carbon compounds captured by the collection system as represented in the permit application dated December 5, 1997.

* 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 _____