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.

Emission **	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY*
BMT-1E/T	Fugitives (4) (6) Train 1 - EtSH or TBM Production	VOC H₂S TRS	2.40 <0.01 <0.01	10.50 <0.01 <0.01
BMT-1M	Fugitives (4) (6) Train 1 - MeSH Product	VOC ion H₂S TRS	0.33 0.01 0.02	1.43 0.06 0.10
BMT-2M	Fugitives (4) Train 2 - MeSH Product	VOC ion H₂S TRS	0.89 <0.01 0.01	3.89 0.03 0.05
BMT-3M	Fugitives (4) Train 3 - MeSH Product	VOC ion H₂S TRS	0.33 0.01 0.02	1.43 0.06 0.10
CT-1	Cooling Tower	H_2S	0.03	0.07
D215	Diesel Tank D-215	VOC	0.02	0.01
D307	Methanol Tank D-307	VOC	0.05	0.25
D310	Methanol Tank D-310	VOC	0.07	0.36
D398	Gasoline Tank D-398	VOC	4.56	0.22
D399	Diesel Tank D-399	VOC	0.02	0.01

Emission **	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY*
D2307	Methanol Tank D-2307	VOC	0.05	0.25
D3191A	Diesel Tank 3191A	VOC	0.02	0.01
D3191B	Diesel Tank 3191B	VOC	0.02	0.01
DMDS	Dimethyl Disulfide Area Fugitives (4)	VOC TRS	0.06 0.06	0.24 0.24
DMS	Dimethyl Sulfide Area Fugitives (4)	VOC TRS	0.06 0.06	0.25 0.25
F-1	Fugitives (4)	VOC H₂S TRS COS CS₂	<0.01 <0.01 <0.01 <0.01 <0.01	<0.01 <0.01 <0.01 <0.01 <0.01
F-2	Fugitives (4)	VOC H₂S TRS	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01
Flare/Flare2	Plant Flares, H-225 and H-2225 (5)	VOC NO _X SO ₂ CO H ₂ S TRS	62.62 37.49 6330.00 321.48 29.53 96.25	6.99 9.11 467.19 78.10 1.82 6.37
FlareFug	Flare Area Fugitives (4)) VOC	<0.01	<0.01
Flare2Fug	Flare Area Fugitives (4)) VOC	<0.01	<0.01

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>**</u> Point No. (1)	Name (2)	Name (3)		TPY*
H202	Heat Transfer Fluid Heat (31 MMBTU/hr)	ter VOC NO _X SO ₂ PM ₁₀ CO	0.17 3.08 0.02 0.23 2.59	0.74 13.48 0.08 1.02 11.32
H401 - H402	Sulfur Heater/Methane He	eater	VOC	0.04
		NO_X SO_2 PM_{10} CO	1.56 0.01 0.21 0.52	6.83 0.04 0.93 2.30
H501 - H502	Sulfur Heater/Methane Heater	VOC NO_X SO_2 PM_{10} CO	0.04 1.56 0.01 0.21 0.52	0.20 6.83 0.04 0.93 2.30
H2202	Heat Transfer Fluid Heat (31 MMBTU/hr)	ter VOC NO _X SO ₂ PM ₁₀ CO	0.17 3.08 0.02 0.23 2.59	0.74 13.48 0.08 1.02 11.32
H2VENT	Hydrogen Reformer Vent	VOC NO_X SO_2 PM_{10} CO NH_3	0.11 1.00 0.004 0.17 0.71 0.10	0.40 0.85 0.02 0.43 1.87 0.45

Emission **	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY*
MEOHSCBR	Methanol Scrubber	VOC H₂S TRS	0.93 <0.01 0.01	4.05 0.01 0.04
RCSHIP	Fugitives (4) Railcar Loading/Unloading	VOC TRS	0.09 0.08	0.37 0.36
RUNDOWN	Rundown Tank Fugitives (4)	VOC H₂S TRS	0.23 <0.01 0.23	0.99 <0.01 0.99
S-1	Sulfur Storage Tank	SO_2 H_2S	0.86 0.23	3.75 1.00
S-1E	Sulfur Storage Tank	SO_2 H_2S	0.86 0.23	3.75 1.00
S-2	Sulfur Pit	SO_2 H_2S	0.17 <0.01	0.09 0.02
S-2E	Sulfur Pit	SO_2 H_2S	0.17 0.04	0.11 0.11
S-3	Sulfur Truck	SO_2 H_2S	0.07 0.02	0.04 0.01
S-3E	Sulfur Truck	SO_2 H_2S	0.07 0.02	0.05 0.01
STORAGE	Fugitives (4) Storage Tanks	VOC TRS	0.28 0.28	1.24 1.24
SWS	Fugitives (4) Sour Water Strippers	VOC H₂S TRS	0.10 0.03 0.04	0.04 0.15 0.18

Emission **	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY*
TTSHIP	Fugitives (4) Tank Truck Loading/Unloading	v VOC TRS	0.04 0.04	0.19 0.19
WWTP	Fugitives (4) Wastewater Treatment Plant	r VOC H₂S	0.12 0.05	0.50 0.20
X-426A	Steam Boiler (15.8 MMBTU/hr)	VOC NO_X SO_2 PM_{10} CO	0.09 2.05 0.01 0.12 1.33	0.38 9.00 0.04 0.53 5.81
X-426B	Steam Boiler (15.8 MMBTU/hr)	VOC NO_X SO_2 PM_{10} CO	0.09 2.05 0.01 0.12 1.33	0.38 9.00 0.04 0.53 5.81
X-930	Steam Boiler (30 MMBTU/hr)	VOC NOx SO_2 PM_{10} CO	0.17 3.00 0.02 0.22 2.52	0.72 13.14 0.08 0.97 11.04
THE FOLLOWING PERMANENTLY SHUT		FECT UNTIL THE	INCINERAT	OR IS
Incinerator	Incinerator (7)	NO_{x} CO VOC SO_{2} PM_{10}	4.6 2.25 0.06 139 1.55	20.0 9.9 0.24 608 6.79

		H_2S $C1_2$	0.10 1.0	0.44 <0.01
Fug-Incin	Incinerator Fugitives (4)	VOC H₂S	0.02 <0.01	0.08 <0.01

- (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 30 Texas Administrative Code Section 101.1
 - NO_X total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM particulate matter, suspended in the atmosphere, including PM_{10} .
 - PM_{10} -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.
 - CO carbon monoxide
 - H₂S hydrogen sulfide
 - TRS total reduced sulfur. Includes H_2S and sulfur bearing VOC. Excludes SO_2
 - Cl₂ chlorine
 - COS carbonyl sulfide
 - CS₂ carbon disulfide
 - NH₃ ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The combined emissions from Flares 225, 2225, and all temporary flares shall not exceed the values shown for EPN FLARE/FLARE2.
- (6) The BMT-1 Unit can produce either MeSH, EtSH, or TBM. Therefore, emissions from BMT-1M and BMT-1E/T do not occur simultaneously.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission **	Source	Air Contaminan	t <u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY*</u>
(7) The therm	efficiency in des	operate with no less structing the carbon con system as represente December 5, 1997.	mpounds captured by
* Emission		on and the facilities operating schedule:	are limited by the
Hrs/year	_Hrs/day	_Days/weekWee	ks/year or <u>8,760</u>

Dated	