### 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>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 CONTAMINANTS Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
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 Are Fugitives (4)	ea 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)	$VOC$ $NO_x$ $SO_2$ $CO$ $H_2S$ $TRS$	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
H202	Oil Heater	$VOC$ $NO_{x}$ $SO_{2}$ $SO_{3}$	0.08 4.40 3.12 0.04	0.37 19.30 13.68 0.19

		AIR CONTAMINANTS	DATA	
Emission	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		$PM_{10}$	0.44	1.93
		CO	1.10	4.82
H401 - H402	Sulfur Heater/Methane 0.20	Heater	VOC	0.04
		$NO_{\times}$	1.56	6.83
		<b>SO</b> <sub>2</sub>	0.01	0.04
		$PM_{10}$	0.21	0.93
		CO	0.52	2.30
H501 - H502	Sulfur Heater/Methane	VOC	0.04	0.20
	Heater	$NO_x$	1.56	6.83
		SO <sub>2</sub>	0.01	0.04
		$PM_{10}$	0.21	0.93
		CO	0.52	2.30
H2202	Oil Heater	VOC	0.08	0.37
		$NO_x$	4.40	19.30
		$SO_2$	3.12	13.68
		$SO_3$	0.04	0.19
		$PM_{10}$	0.44	1.93
		CO	1.10	4.82
H2VENT	Hydrogen Reformer Ven	t VOC	0.11	0.40
		$NO_{\times}$	1.00	0.85
		$SO_2$	0.004	0.02
		$PM_{10}$	0.17	0.43
		CO	0.71	1.87
		$NH_3$	0.10	0.45
MEOHSCBR	Methanol Scrubber	VOC	0.93	4.05
		$H_2S$	<0.01	0.01
		TRS	0.01	0.04
RCSHIP	Fugitives (4) Railcar	VOC	0.09	0.37
	Loading/Unloading	TRS	0.08	0.36

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		AIR CONTAMINANTS	DATA	
Emission	Source	Air Contaminant	<u>Emissio</u>	<u>n Rates</u>
Point No. (1)	Name (2)	Name (3)	1b/hr	<u>TPY</u>
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
TTSHIP	Fugitives (4) Tank Tr Loading/Unloading	uck VOC TRS	0.04 0.04	0.19 0.19
WWTP	Fugitives (4) Wastewa Treatment Plant	ter VOC H₂S	0.12 0.05	0.50 0.20
X-426A	Steam Boiler	VOC NO <sub>x</sub>	0.06 1.58	0.26 6.92

		$SO_2$ $PM_{10}$ $CO$	0.01 0.22 0.55	0.04 0.95 2.42
X-426B	Steam Boiler	$VOC$ $NO_x$ $SO_2$ $PM_{10}$ $CO$	0.06 1.58 0.01 0.22 0.55	0.26 6.92 0.04 0.95 2.42
X-930	Steam Boiler (30 MMBTU/hr)	$VOC$ $NO_x$ $SO_2$ $PM_{10}$ $CO$	0.17 3.00 0.02 0.22 2.52	0.72 13.14 0.08 0.97 11.04
THE FOLLOWING PERMANENTLY SHUT	ALLOWABLES ARE IN -DOWN	EFFECT UNTIL	THE INCINERA	ATOR IS
Incinerator	Incinerator (7)	$\begin{array}{c} NO_{\times} \\ CO \\ VOC \\ SO_{2} \\ PM_{10} \\ H_{2}S \\ C1_{2} \end{array}$	4.6 2.25 0.06 139 1.55 0.10 1.0	20.0 9.9 0.24 608 6.79 0.44 <0.01
Fug-Incin	Incinerator Fugitives	(4) VOC H <sub>2</sub> S	0.02 <0.01	0.08 <0.01

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

Emission	EMISSION SOURCES - MAX	(IMUM <b>AARLOWMABMENAMTS</b> SI <b>D</b> ) Air Contaminant	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY</u>
(2) Specific	point source name. fugitive source name.	For fugitive sources ι	use area name or
(3) VOC -		compounds as defined	l in 30 Texas
	ative Code Section 10	1.1	
NO <sub>x</sub> -			
SO <sub>2</sub> -		- 9	
	sulfur trioxide		
		suspended in the atmos	sphere, including
PM <sub>10</sub> .	par crearace maceer,	suspended in the demos	priere, meruaring
	rticulate matter equ	al to or less than	10 microns in
-	ere PM is not listed,		20 (2. 0.13
		iculate matter greater	than 10 microns
is emitted.	assumed that no part	rearace maccer greater	chan to microns
CO -	carbon monoxide		
	hydrogen sulfide		
TRS -		ur. Includes H₂S and	l sulfur hearing
_	:Tudes SO <sub>2</sub>	ur. Incrudes 1125 and	i surrur bearing
Cl <sub>2</sub> -	chlorine		
<del>=</del>			
	carbonyl sulfide		
<del>=</del>	carbon disulfide		
NH <sub>3</sub> -	ammonia		
(4) Fugitive 6		nate only and should n	ot be considered
(F) The souls's	as a maximum allowable		
(5) The Combin		res 225, 2225, and all	
(C) TI DIAT 1		/alues shown for EPN FL	-
(e) the RMI-T		ther MeSH, EtSH, or T	
	emissions from BM7	T-1M and BMT-1E/T	do not occur
<b>/-&gt;</b>	simultaneously.		
(7) The therma		erate with no less th	
	<del>_</del>	cting the carbon compo	
		tem as represented	in the permit
	application dated Dece	ember 5, 1997.	
<pre>* Emission</pre>		and the facilities are	limited by the
	following maximum open	ating schedule:	
	Hrs/dayDays	s/weekWeeks/	year or <u>8,760</u>

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

<b>EMISSION SOURCES</b>	- MAXIMUMA TARLOOMAT BILLEN PAINTISS IDANT PRATES
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Emission	Source	Air Contaminant	<b>Emission Rates</b>
Point No. (1)	Name (2)	Name (3)	1b/hr TPY

Hrs/year

Date	ed