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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 A	ir Contaminant	<u>Emissior</u>	<u>Rates</u>
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
2004-1	Carbon Canister (CB 2004-L 0.04	_) VOC	(10)	<0.01
2004-2	Carbon Canister (CB 2003-L<0.01	.) VOC	(10)	<0.01
2205-1	Carbon Canister (CB 2205-L<0.01	.) VOC	(10)	<0.01
2205-2	Carbon Canister (CB 2206-L	.) VOC	(10)	<0.01
2101-1	Carbon Canister (CB 2101-l 0.02	.) VOC	(10)	<0.01
2300-1	Carbon Canister (CB M-1003 and M-224)	3 VOC (10)	0.08	0.08
2300-2	Carbon Canister (CB 2300-L<0.01	.) VOC	(10)	<0.01
2400-1	Carbon Canister (M-102B)	VOC (10)	0.06	<0.01
M-222	Slop Oil Tank	VOC	0.41	0.27
M-223	Slop Oil Tank	VOC	0.41	0.27
WW-FUG	WWU/TO Fugitives (4)	VOC	0.13	0.56

Emission	Source	Air Contaminant	<u>Emissic</u>	on Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	1b/hr	<u>TPY</u>
1-105A	Main Flare (7)	VOC (8) VOC (9) CO (8) CO (9) NO _x (8) NO _x (9) SO ₂	2.21 3.81 1.59 2.17 0.24 0.32 <0.01	4.30 4.31 5.11 5.11 0.74 0.75 <0.01
TO-STK	Thermatrix TO Stack	$\begin{array}{c} \text{VOC} (11) \\ \text{CO} \\ \text{PM}_{10} \\ \text{NO}_{\times} \\ \text{SO}_{2} \end{array}$	0.01	<0.01 0.22 <0.01 0.28 <0.01
1-104BC/5	Furnace No. 5 (104 MMBTU/HR, LHV)	$\begin{array}{c} \text{VOC} \\ \text{NO}_{x} (5) \\ \text{NO}_{x} (6) \\ \text{SO}_{2} \\ \text{PM}_{10} \\ \text{CO} \end{array}$		3.90 55.49 37.27 0.27 3.46 38.21
1-104BC/6	Furnace No. 6 (104 MMBTU/HR, LHV)	$\begin{array}{c} \text{VOC} \\ \text{NO}_{x} (5) \\ \text{NO}_{x} (6) \\ \text{SO}_{2} \\ \text{PM}_{10} \\ \text{CO} \end{array}$		3.90 55.49 37.27 0.27 3.46 38.21
1-104BD	Boiler (227.5 MMBTU/HR, LH	VOC VOC	3.72 30.22 20.21 0.15 1.88 20.77	7.93 108.44 72.57 0.53 6.74 74.55

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Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
<u>^</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1-105B	Acid Gas Flare	VOC NO_x SO_2 CO H_2S	6.01 0.72 94.12 4.06 1.00	26.34 3.16 164.89 17.76 1.75
CV-2	Decoking Vent	SO ₂ PM ₁₀ CO	1.62 0.40 34.91	0.17 0.02 3.72
PLANT	Fugitives (4) (7)	VOC	5.88	25.35
M-1002	Dripolene Tank	VOC	0.29	0.25
T-136A	Methanol Tank	VOC	1.91	0.09
T-136B	Propanol Tank	VOC	0.70	0.03
F-1-101U	Main Cooling Tower (7)	VOC	0.39	1.69
F-2401-UL	Cold Box Cooling Tower	VOC	0.60	2.61
204-F	Refinery Gas KO Loadir	ig VOC	<0.01	<0.01
F-1-L4	Flare KO Pot Waste Loa<0.01	ding	VOC	0.57
LD-SLDGE	CPI Sludge Loading	VOC	0.24	<0.01
LD-TAR	Cracking Tar Loading	VOC	2.63	0.08
A-206	Acetylene/MAPD Convert	er VOC	1.27	<0.01
LDCAUSTIC	Spent Caustic Loading	VOC	<0.01	<0.01

Emission	Source	Air Contaminant	<u>Emissic</u>	on Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ACOMP-1	Air Compressor (Diese 1.08	el Engine 225-J)	VOC	0.31
		NO_{x}	11.23	39.23
		SO_2	1.62	5.67
		PM_{10}	0.62	2.19
		CO	19.54	68.38

⁽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

SO₂ - sulfur dioxide

 PM_{10} - particulate matter less than 10 microns

CO - carbon monoxide

H₂S - hydrogen sulfide

- (4) Fugitive emissions are an estimate only and should not be considered as maximum allowable emission rates.
- (5) NO_x emission rates represent conditions when firing plant gas fuels containing hydrogen.
- (6) NO_x emission rates represent conditions when firing straight natural gas.
 - (7) Emission rates listed are attributable to this permit only. Emissions from grandfathered sources are not included in the emission rates listed.
 - (8) Emission rates under option 1 of January 1999 permit amendment where M-102-B vents either to CAS or to the thermal oxidizer (TO) and is not vented to the flare.
- (9) Emission rates under option 2 of January 1999 permit amendment where M-102-B is vented to the flare.
- (10) Emissions vent to carbon canister when the TO is not in operation.
- (11) The following vents are routed to the TO when the TO is in operation: 2004-1, 2004-2, 2205-1, 2205-2, 2101-1, 2300-1, 2300-2, 2400-1, and A-206.

*	Emission	rates	are	based	on	and	the	facilities	are	limited	by	the
fo1	lowing max	kimum o	pera	ting sc	hedu	ıle:					_	

Hrs/day	,	Days/week	Weeks/year	0
Hrs/year _	8,760			

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES