Permit No. 21878

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 Rates *	Source	Air	Contaminant		<u>Emission</u>
Point No. (1)	Name (2	()			Name
(3)	lb/hr	TP'	<u>Y</u>		
1	S	0 M 0₂ 0C	NO _x (5) NO _x (6) 4.59 0.68 1.93 0.19	6.68 11.75 20.10 2.96 8.45 0.83	29.25 51.44
VENT-11	Deaerator Vent		CO	0.85	3.70
PSA-FUG	Pressure Swing Adsorption (PSA) Uni Fugitives (4)	t	CO	0.95	4.20
7	HYCO-1 Flare		**		
12	HYCO-2 Flare		**		
A	Fired Gas Preheater A		NO _x PM SO ₂ CO VOC Ammonia Cyanide	1.92 0.48 0.46 1.15 0.09 0.007 0.0007	8.4 2.1 2.0 5.1 0.4 0.03 0.003
В	Fired Gas Preheater B		NO _x PM SO ₂ CO	1.92 0.48 0.46 1.15	8.4 2.1 2.0 5.1

AIR CONTAMINANTS DATA

Emission	Source	Air Contami	nant	<u>Emission</u>
Rates * Point No. (1)	Name (Name
<u>(3)</u>	1b/hr	<u>TPY</u>		
		VOC Ammonia Cyanide		0.4 0.03 0.003
C	Auxiliary Boiler	$\begin{array}{c} NO_{x} (7) \\ NO_{x} (8) \\ PM \\ SO_{2} \\ CO \\ VOC \end{array}$	6.00 10.0 1.5 1.43 3.60 0.28	26.3 43.8 6.6 6.3 15.8 1.2
D	Warm Flare	NO _x CO SO ₂	5.28 80.6 1.05	2.5 39.1 0.11
E	Cold Flare	**		
F	Plant Fugitives (4)	CO VOC	4.42 0.28	19.4 1.2
G	Liquid Oxygen Vaporizer	NO_X (9) NO_X PM SO_2 CO VOC	2.04 1.21 0.24 0.23 0.55 0.05	5.3 1.1 1.0 2.4 0.2
Н	Wastewater Equalizati Tank	on VOC Cyanide Ammonia CO		0.007 0.002 0.088 0.6
I	Temperature Swing Adsorption (TSA) Driers	CO	0.29	1.3

AIR CONTAMINANTS DATA

Emiss Rates		So	urce	Air	Contaminant	:	<u>Emission</u>
Point		. (1)		Name (2)			Name
(3)			1b/hr	TPY			
J I	MEA	Storage Tank	(3)		VOC	0.02	0.07

- (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) PM particulate matter
 - VOC volatile organic compounds as defined in General Rule 101.1

 NO_X - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

MEA - monoethanolamine

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Firing natural gas only.
- (6) Firing a combination of PSA purge gas and natural gas.
- (7) Firing natural gas or tail gas only.
- (8) Firing a combination of PSA purge gas and natural gas or tail gas.
- (9) Firing propane (Only used during upset or routine maintenance periods).
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day	24	_Days/week	7	Weeks/year	52	or	Hrs/year	
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** Only used during upset or routine maintenance.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>
<u>Rates *</u>			
Point No. (1)		Name (2)	<u>Name</u>
(3)	lb/hr	TPY_	

Dated	