Permit Numbers 6289 and PSD-TX-76M8

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		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	(4)
TPY**				-	
S-25	SO₂ Storage Tank		SO ₂	0.09	0.38
BDS-5	Barge Dock Scrubber		VOC	1.03	0.71
FG-AN-III	Process Fugitives (5)	СО	NH₃ VOC 0.01	2.34 11.05 0.01	10.26 48.37
CT-RX4	Cooling Tower		NH₃ VOC	0.59 0.59	2.56 2.56
FG-1	Cooling Tower (5)		NH₃ VOC	0.64 0.37	2.82 1.63
FG-1	Cooling Tower (6)		NH₃ VOC	1.27 0.05	5.56 0.21
FL-G14	CB and I Ammonia Flare		NH₃ CO NO _x SO ₂	16.56 7.75 9.19 0.05	0.16 2.12 0.33 0.20
FL-G32	CB and I Propylene Flare	VOC	CO NO _x 3.89 SO ₂	2.47 1.24 0.10 0.01	2.17 0.26 0.06
FL-G33	Barge Dock Ammonia Flare		NH₃ CO NO _x	0.10 0.15 0.14	0.01 0.44 0.06

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	
TPY**				
FL-G34	Barge Dock Propylene Flare	SO_2 CO NO_x SO_2 VOC	0.05 2.04 0.40 0.05 2.77	0.20 0.80 0.10 0.20 0.31
		VOC	2.11	0.31
FL-G4	Process Flare	CO NO _x SO ₂ VOC	10.66 2.80 0.28 12.91	20.98 4.27 0.76 9.45
FL-G4A	Ammonia Flare	NH_3 CO NO_x SO_2	0.92 4.13 1.32 0.11	0.13 2.22 0.34 0.07
FL-G5	Hydrogen Cyanide (HCN) Flare	CO NO _x SO ₂ VOC	4.77 0.83 0.31 1.09	6.73 1.98 0.91 4.76
G-2	Quench Water Clarifier Scrubber Ac	VOC etone	1.25 0.01	0.08 0.01
CH-4	Catalyst Handling System	PM ₁₀	0.96	4.20
H-4A and B	AOGIB No. 1 and No. 2 (7) Absorber Off-Gas Incinerator/Boiler No. 1 and No. Combined Annual Limits	NH ₃ CO 2 NO _x PM ₁₀ SO ₂ VOC	 	17.80 131.00 630.80 18.60 7.60 24.97

AIR CONTAMINANTS DATA

Emission	Source	Aiı	Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr (4)	
TPY**					
H-4A and B	AOGIB No. 1 and No. 2		NH ₃	2.03	
	Absorber Off-Gas Incinerator/Boiler No. 1 and N	do 2	CO NO _x	105.00 150.00	
	Maximum hourly rate each	NO. Z	PM ₁₀	2.10	
	maximum nounty rule ellen		SO ₂	0.90	
			VOC	9.46	
H-4C	AOGIB No. 3 Absorber Off-Gas Incinerator/Boiler No. 3		NH₃ CO NO _x	1.10 63.00 90.00	4.70 9.70 119.60
	incinerator/Boller No. 3		PM_{10}	1.30	5.58
			SO ₂	0.40	1.90
			VOC	2.49	4.78
H4-D		PM ₁₀ SO ₂ VOC	NH₃ CO NO _x 2.55 0.19 6.84	6.67 8.80 72.10 9.29 0.84 13.14	29.20 38.40 236.80
RRS-6	Railcar Vent Scrubber		VOC	0.37	0.07
S-11B	AN Rundown Tank (8)		VOC	0.49	
S-11C	AN Rundown Tank (8)		VOC	0.49	
S-11B and C	AN Rundown Tanks (8) Combined Annual Limits		VOC		1.49
S-12A	AN Product Tank (8)		VOC	0.64	
S-12B	AN Product Tank (8)		VOC	0.64	

AIR CONTAMINANTS DATA

Emission		Air Contaminant <u>Emission Rates *</u> Name (3) Ib/hr (4)		
Point No. (1) TPY**	Name (2)	Name (S)		(4)
S-12D	AN Product Tank (8)	VOC	0.64	
S-12A, B, and D	AN Product Tanks (8) Combined Annual Limits	VOC		3.84
S-12C	AN Product Tank (6)	VOC	0.37	1.38
S-21	Catalyst Trap	PM ₁₀	0.06	0.26
S-22	Bag Filter	PM ₁₀	0.01	0.03
S-9A	Crude/Off Spec. AN Tank A (8)	VOC	0.61	
S-9B	Crude/Off Spec. AN Tank B (8)	VOC	0.61	
S-9A and S-9B	Crude/Off Spec. Tanks A and B Maintenance Emissions (8)	VOC	14.13	
S-9A and S-9B	Crude/Off Spec. Tanks A and B (8 Combined Annual Limits	3) VOC		2.49
WW-1	Waste Water Treatment	VOC	0.21	0.50
WW-2	Oxazole Regen Tank	VOC	0.21	0.50

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

 NO_x - total oxides of nitrogen

⁽²⁾ Specific point source names. For fugitive sources use area name or fugitive source name.

⁽³⁾ PM_{10} - particulate matter (PM) 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.

SO_2	-	sulfur	dioxide

CO - carbon monoxide

NH₃ - ammonia

- (4) Hourly emissions are based on clock hour averages
- (5) These emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) These facilities are authorized by permit by rule and are included for reference. (12/06)
- (7) Annual emissions for AOGIBs No. 1 and No. 2 are combined because of the waste streams used for fuel and allow for the possibility that more of the waste streams may be fired in one boiler than the other.
- (8) The hourly rate is maximum for each tank and an annual rate is the combined total for all similar tank

*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
	Hrs/day Days/weekWeeks/year or <u>8,760</u> Hrs/year
**	Compliance with annual emission limits is based on a rolling 12-month period.

Dated September 27, 2007