

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 6289 and PSD-TX-76M7

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr (4)	
TPY**				
S-25	SO <sub>2</sub> Storage Tank	SO <sub>2</sub>	0.09	0.38
BDS-5	Barge Dock Scrubber	VOC	1.03	0.71
FG-AN-III	Process Fugitives (5)	NH <sub>3</sub>	1.20	5.27
		VOC	9.51	41.64
FG-1	Cooling Tower (5)	NH <sub>3</sub>	0.64	2.82
		VOC	0.37	1.63
FG-1	Cooling Tower (6)	NH <sub>3</sub>	1.27	5.56
		VOC	0.05	0.21
FL-G14	CB and I Ammonia Flare	NH <sub>3</sub>	16.56	0.16
		CO	7.75	2.12
		NO <sub>x</sub>	9.19	0.33
		SO <sub>2</sub>	0.05	0.20
FL-G32	CB and I Propylene Flare	CO	2.47	2.17
		NO <sub>x</sub>	1.24	0.26
		VOC	3.89	0.10
		SO <sub>2</sub>	0.01	0.06
FL-G33	Barge Dock Ammonia Flare	NH <sub>3</sub>	0.10	0.01
		CO	0.15	0.44
		NO <sub>x</sub>	0.14	0.06
		SO <sub>2</sub>	0.05	0.20
FL-G34	Barge Dock Propylene Flare	CO	2.04	0.80
		NO <sub>x</sub>	0.40	0.10
		SO <sub>2</sub>	0.05	0.20
		VOC	2.77	0.31

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			lb/hr	(4)
FL-G4	Process Flare	CO	10.43	20.86
		NO <sub>x</sub>	2.75	4.19
		SO <sub>2</sub>	0.28	0.76
		VOC	12.23	8.89
FL-G4	Process Flare (6)	VOC	0.18	0.02
FL-G4A	Ammonia Flare	NH <sub>3</sub>	0.92	0.13
		CO	4.13	2.22
		NO <sub>x</sub>	1.32	0.34
		SO <sub>2</sub>	0.11	0.07
FL-G5	Hydrogen Cyanide (HCN) Flare	CO	4.77	6.73
		NO <sub>x</sub>	0.83	1.98
		SO <sub>2</sub>	0.31	0.91
		VOC	1.09	4.76
G-2	Quench Water Clarifier Scrubber	VOC	1.05	0.07
		Acetone	0.01	0.01
H-4A and B	AOGIB Nos. 1 and No. 2 (7) Absorber Off-Gas Incinerator/Boiler No. 1 and No. 2 <b>Combined Annual Limits</b>	NH <sub>3</sub>	--	17.80
		CO	--	131.00
		NO <sub>x</sub>	--	630.80
		PM <sub>10</sub>	--	18.60
		SO <sub>2</sub>	--	7.60
		VOC	--	24.97
H-4A and B	AOGIB Nos. 1 and No. 2 Absorber Off-Gas Incinerator/Boiler No. 1 and No. 2 <b>Maximum hourly rate EACH</b>	NH <sub>3</sub>	2.03	--
		CO	105.00	--
		NO <sub>x</sub>	150.00	--
		PM <sub>10</sub>	2.10	--
		SO <sub>2</sub>	0.90	--
		VOC	9.46	--
H-4C	AOGIB No. 3 Absorber Off-Gas Incinerator/Boiler No. 3	NH <sub>3</sub>	1.10	4.70
		CO	63.00	9.70
		NO <sub>x</sub>	90.00	119.60

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Emission Point No. (1) <u>TPY**</u>	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			<u>Emission Rates *</u>	
			lb/hr	(4)
		PM <sub>10</sub>	1.30	5.58
		SO <sub>2</sub>	0.40	1.90
		VOC	2.49	4.78
RRS-6	Railcar Vent Scrubber	VOC	0.37	0.07
S-11B	AN Rundown Tank (8)	VOC	0.39	
S-11C	AN Rundown Tank (8)	VOC	0.39	
S-11B and C	AN Rundown Tanks (8) <b>Combined Annual Limits</b>	VOC		1.05
S-12A	AN Product Tank (8)	VOC	0.53	
S-12B	AN Product Tank (8)	VOC	0.53	
S-12D	AN Product Tank (8)	VOC	0.53	
S-12A, B, and D	AN Product Tanks (8) <b>Combined Annual Limits</b>	VOC		3.84
S-12C	AN Product Tank (6)	VOC	0.37	1.38
S-21	Catalyst Trap	PM <sub>10</sub>	0.06	0.26
S-22	Bag Filter	PM <sub>10</sub>	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	
	Crude/Off Spec Tanks A and B (8) <b>Combined Annual Limits</b>	VOC		2.49
WW-1	Wastewater Treatment	VOC	0.21	0.50
WW-2	Oxazole Regen Tank	VOC	0.21	0.50

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) PM<sub>10</sub> - 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.  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
NH<sub>3</sub> - 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/week \_\_\_\_\_Weeks/year or 8,760 Hrs/year

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 7, 2006