

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr (4)</u>	<u>TPY</u>
BDS-5	Barge Dock Scrubber	VOC	1.03	0.71
FG-1	Cooling Tower	NH <sub>3</sub>	0.64	2.82
		VOC	0.37	1.63
FG-AN-III	Acrylonitrile Fugitives	NH <sub>3</sub>	0.43	1.88
		CO	0.01	0.04
		VOC	2.45	10.47
FL-G14	CB and I Ammonia Flare	NH <sub>3</sub>	0.31	0.02
		CO	0.37	1.28
		NO <sub>x</sub>	0.93	0.27
		SO <sub>2</sub>	0.05	0.20
FL-G32	CB and I Propylene Flare	CO	0.29	1.26
		NO <sub>x</sub>	0.06	0.25
		SO <sub>2</sub>	0.01	0.06
FL-G33	Barge Dock Ammonia Flare	NH <sub>3</sub>	0.10	<0.01
		CO	0.09	0.27
		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	0.49
		NO <sub>x</sub>	0.40	0.10
		SO <sub>2</sub>	0.05	0.20
		VOC	2.77	0.31
FL-G4	Process Flare	CO	6.53	15.60
		NO <sub>x</sub>	2.58	3.58

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		SO <sub>2</sub>	0.14	0.61
		VOC	10.50	5.91
FL-G4A	Ammonia Flare	NH <sub>3</sub>	0.92	0.13
		CO	0.54	1.32
		NO <sub>x</sub>	1.32	0.34
		SO <sub>2</sub>	0.01	0.06
FL-G5	Hydrogen Cyanide (HCN) Flare 4.41	CO		1.01
		NO <sub>x</sub>	1.28	5.63
		SO <sub>2</sub>	0.21	0.91
		VOC	4.44	19.40
G-2	Quench Water Clarifier Scrubber 0.07	VOC		1.05
H-3	HCN Incinerator	CO	120.00	525.60
		NO <sub>x</sub>	173.00	757.70
		SO <sub>2</sub>	4.50	19.70
		VOC	6.00	26.30
H-4A and B	AOGIB No. 1 and No. 2 (5)	NH <sub>3</sub>	--	17.80
	Absorber Off Gas	CO	--	131.00
	Incinerator/Boiler No. 1 and No. 2 630.80	NO <sub>x</sub>	--	--
	<b>Combined Annual Limits</b>	PM <sub>10</sub>	--	18.60
		SO <sub>2</sub>	--	7.60
		VOC	--	43.40
H-4A and B	AOGIB No. 1 and No. 2	NH <sub>3</sub>	2.03	--
	Absorber Off Gas	CO	105.00	--
	Incinerator/Boiler No. 1 and No. 2	NO <sub>x</sub>		150.00
	--			
	<b>Maximum hourly rate EACH</b>	PM <sub>10</sub>	2.10	--
		SO <sub>2</sub>	0.90	--

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr (4)</u>	<u>TPY</u>
		VOC	9.46	--
H-4C	AOGIB No. 3	NH <sub>3</sub>	1.10	4.70
	Absorber Off Gas	CO	63.00	9.70
	Incinerator/Boiler No. 3	NO <sub>x</sub>	90.00	119.60
		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 and C	AN Rundown Tanks (6) (two Tanks)	VOC	0.39	1.05
S-12A, B, C, and D	AN Product Tanks (6) (four Tanks)	VOC	0.53	3.24
S-21	Catalyst Trap	PM <sub>10</sub>	0.06	0.26
S-22	Bag Filter	PM <sub>10</sub>	0.01	0.02
S-9A and B	Crude/Off Spec AN Tanks (6) (two Tanks)	VOC	0.61	1.91
WW-1	Wastewater Treatment	VOC	--	0.50

(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<sub>10</sub> - particulate matter less than 10 microns in diameter

VOC - volatile organic compounds as defined in General Rule 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

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CO - carbon monoxide

NH<sub>3</sub> - ammonia

(4) Hourly emissions are based on clock hour averages

(5) 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 stream may be fired in one boiler than the other.

(6) Hourly rate is maximum for each tank and annual rate is the combined total for all similar tanks

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

8,760 Hrs/year

Dated \_\_\_\_\_