

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 978B

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)	<u>Emission Rates</u>	
			lb/hr	TPY **
EK-120	TCB Storage Tank	1,2,4-TCB	0.01	0.01
EK-212	Ethylene Glycol Storage Tank (J-212, J-214, and J-216) Carbon Canister	Ethylene Glycol	0.01	0.01
ED-565	Dicamba Absorber	Dicamba	0.04	0.16
EC-568	Dust Collector	PM	0.01	0.01
EA-506	D-505 Scrubber	Dicamba	1.74	7.57
ED-300A	Vent Scrubber	HCl	0.01	0.01
ED-300	HCl Unloading	HCl	0.04	0.04
EB-141	Tank Scrubber	HCl	0.45	0.02
ED-206A	Vent Absorber (5)	Dimethyl amine	0.27	0.02
ED-206B	D-206B Vent Absorber	Diglycol amine	0.01	0.01
EK-203	K-203 Flare	HCl	0.01	0.04
		Dimethyl ether	8.16	35.75
		MeOH	0.53	2.32
		Xylene	0.69	3.02
		CH <sub>3</sub> Cl	0.01	0.01
		NO <sub>x</sub>	0.83	3.64
		CO	7.14	31.27

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EK-275	Dicamba Unit Fume Burner	HCl	2.50	0.45
		Cl <sub>2</sub>	0.10	0.04
		NO <sub>x</sub>	0.30	1.26
		MeOH	0.02	0.02
		CH <sub>3</sub> Cl	0.01	0.01
		1,2,4-TCB	0.01	0.01
		PM <sub>10</sub>	0.02	0.09
		CO	0.23	1.01
		VOC	0.26	1.09
EB-2	Boiler No. 2	PM <sub>10</sub>	0.72	3.16
		NO <sub>x</sub>	9.64	42.22
		CO	7.97	34.92
		VOC	0.52	2.29
		SO <sub>2</sub>	0.06	0.25
EB-3	Boiler No. 3	PM <sub>10</sub>	0.72	3.16
		NO <sub>x</sub>	5.81	25.45
		CO	0.07	0.31
		VOC	0.52	2.29
		SO <sub>2</sub>	0.06	0.25
F	Process Fugitives (4)	Xylene	0.02	0.07
		MeOH	0.01	0.06
		1,2,4-TCB	0.01	0.04
		CH <sub>3</sub> Cl	0.01	0.02
		HCl	0.01	0.01
		Ethylene Glycol	0.01	0.03
		Cl <sub>2</sub>	0.01	0.01
EWV-TR3	Carbon Canister	VOC	0.05	0.20
PC-1	Parts Cleaner	VOC	0.21	0.03

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PLANNED MAINTENANCE, STARTUP, AND SHUT DOWN (MSS) ACTIVITIES

EK-203	K-203 Flare	VOC (6)	105.29	0.45
		NO <sub>x</sub>	3.84	0.02
		CO	15.31	0.07
EK-275	Dicamba Unit Fume Burner	VOC (6)	3.75	0.01
EK-120	TCB Storage Tank CAS	VOC (6)	0.03	0.01
EK-212	Ethylene Glycol Storage Tank (J-212, J-214, and J-216) CAS	Ethylene Glycol	0.01	0.01
ED-206A	Vent Absorber	VOC (6)	0.02	0.01
ED-206B	D-206B Vent Absorber	VOC (6)	0.01	0.01
ED-300	HCl Unloading	HCl	0.07	0.01
ED-300A	Vent Scrubber	HCl	0.35	0.01
MSSDICAM	Compressors	VOC (6)	1.74	(7)
MSSDICAM	Filter Purging	VOC (6)	0.22	(7)
MSSDICAM	Loading Rack	VOC (6)	0.40	(7)
MSSDICAM	Pumps A-204 C & D	VOC (6)	1.85	(7)
MSSDICAM	Tank Breathing	VOC (6)	0.01	(7)
MSSDICAM	Tank Fume Burner	VOC (6)	0.75	(7)

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MSSDICAM	Tank Inspections	VOC (6)	11.16	(7)

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MSSDICAM	Vacuum Trucks	VOC (6)	0.01	(7)
MSSDICAM	Wastewater Tank	VOC (6)	0.19	(7)
MSSDICAM	Uncontrolled Emission Caps	VOC (6)		0.11

- (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) 1,2,4-TCB - 1,2,4 trichlorobenzene  
 Dicamba - 3,6 dichloro-o-anisic acid (and isomers)  
 HCl - hydrogen chloride  
 Cl<sub>2</sub> - chlorine  
 NO<sub>x</sub> - oxides of nitrogen  
 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 PM greater than 10 microns is emitted.  
 CO - carbon monoxide  
 SO<sub>2</sub> - sulfur dioxide  
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 MeOH - methanol  
 CH<sub>3</sub>Cl - methyl chloride
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) Operations are limited to 200 hours per year.
- (6) Total VOC includes all speciations.
- (7) Annual Cap of all uncontrolled MSS emissions

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:  
8,760 Hrs/year.

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

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Dated: August 31, 2011