#### 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, sources, and related activities. 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		
Foliit No. (1)			lbs/hour	TPY (4)	
EK-120	TCB Storage Tank	1,2,4-TCB	0.04	0.01	
EK-212	BAPMA Storage Tank (J-212, J-214, J-215,and J- 216) Water Scrubber	Amine	0.01	<0.01	
ED-565	Dicamba Flaker Absorber	Dicamba	0.032	0.14	
	Dicamba Bag Loading Dust Collector	PM <sub>10</sub>	<0.01	<0.01	
		PM <sub>2.5</sub>	<0.01	<0.01	
EA-506	D-505 Scrubber	Dicamba	1.73	7.58	
ED-300A	Vent Scrubber (Tank J-300)	HCI	0.068	<0.01	
ED-300	HCI Unloading	HCI	0.04	0.051	
EB-141	Tank Scrubber (HCl Tanks)	HCI	0.32	0.11	
ED-206A	Vent Absorber (Tank J-206) (6)	Dimethyl amine	0.34	0.033	
ED-206B	D-206B Vent Absorber (Tank J-205)	Diglycol amine	<0.01	<0.01	

Project Number: 177889

Boiler-Cap	Boiler Emissions Cap (EB-2, EB-4, and EB-5) (9)	PM <sub>10</sub>	1.66	7.27
		PM <sub>2.5</sub>	1.66	7.27
		NO <sub>x</sub>	15.21	66.61
		СО	11.55	30.57
		VOC	1.06	4.66
		SO <sub>2</sub>	0.12	0.50
EB-2	Boiler No. 2	PM <sub>10</sub>	0.72	3.16
		PM <sub>2.5</sub>	0.72	3.16
		NO <sub>x</sub>	9.40	41.17
		СО	7.97	14.89
		VOC	0.52	2.29
		SO <sub>2</sub>	0.06	0.25
EB-4	Boiler No. 4	PM <sub>10</sub>	0.94	4.11
		PM <sub>2.5</sub>	0.94	4.11
		NO <sub>x</sub>	5.81	25.44
		СО	3.28	14.37
		VOC	0.54	2.37
		SO <sub>2</sub>	0.06	0.25
EB-5	Boiler No. 5	PM <sub>10</sub>	0.72	3.16
		PM <sub>2.5</sub>	0.72	3.16
		NO <sub>x</sub>	0.97	4.24
		СО	3.58	15.68
		VOC	0.52	2.29
		SO <sub>2</sub>	0.06	0.25

EK-275	Dicamba Unit Fume Burner	HCI	1.99	2.19
	Fullie Bulliel	Cl <sub>2</sub>	0.02	0.01
		NO <sub>x</sub>	0.375	1.64
		МеОН	0.705	0.03
		CH₃Cl	0.15	<0.01
		1,2,4-TCB	0.02	<0.01
		PM <sub>10</sub>	0.029	0.125
		PM <sub>2.5</sub>	0.029	0.125
		СО	0.32	1.38
		SO <sub>2</sub>	<0.01	0.01
		Xylene	0.21	0.05
		Diethylene triamine	<0.01	<0.01
		Dimethyl amine	0.94	0.03
		Diglycol amine	<0.01	<0.01
		Dicamba	<0.01	<0.01
		VOC	2.05	0.11
		NaOH	0.03	<0.01
		КОН	0.02	<0.01
		Dichlorophenol	0.01	<0.01
		ВАРМА	<0.01	<0.01
		Butanol-(1)	<0.01	<0.01
		Alkylated Naphthalene	<0.01	<0.01
		Sodium Sulfate	<0.01	0.01

EK-203	K-203 Flare	HCI	<0.01	<0.01
		Dimethyl ether	9.67	37.80
		МеОН	0.71	2.76
		Xylene	0.013	0.052
		CH₃Cl	0.037	0.14
		NO <sub>x</sub>	0.93	3.64
		СО	7.97	31.20
FUG	Dicamba Process	Xylene	0.01	0.03
	Fugitives (5)	МеОН	0.074	0.32
		1,2,4-TCB	0.52	2.28
		CH₃Cl	0.26	1.14
		HCI	0.47	2.04
ED-107	Tank J-107 Vent	VOC	0.014	0.013
		MeOH	0.014	0.013
		Sodium Dichlorophenol	<0.0001	<0.0001
		NaCL	<0.01	<0.01
		NaOH	<0.01	<0.01
EWW-TR3	North Wastewater Tank Farm	VOC	0.005	0. 03
COOLTWR	Cooling Tower (5)	VOC	0.28	1.21
		PM <sub>10</sub>	0.63	2.74
		PM <sub>2.5</sub>	0.63	2.74
PLANNED MA	AINTENANCE, STAF	RTUP, AND SHUT DO	DWN (MSS) ACTIVITIE	ES
EK-203	K-203 Flare	VOC (7)	105.29	0.45
		NO <sub>x</sub>	3.84	0.02
		СО	15.31	0.07

Project Number: 177889

EK-275	Dicamba Unit Fume Burner	VOC (7)	3.75	0.01
EK-120	TCB Storage Tank CAS	VOC (7)	0.03	0.01
EK-212	BAPMA Storage Tank (J-212, J-214, J-215,and J- 216) Water Scrubber	Amine	0.01	0.01
ED-206A	Vent Absorber (Tank J-206)	VOC (7)	0.02	0.01
ED-206B	D-206B Vent Absorber (Tank J-205)	VOC (7)	0.01	0.01
ED-300	HCI Unloading	HCI	0.07	0.01
ED-300A	Vent Scrubber (Tank J-300)	HCI	0.35	0.01
MSSDICAM	Compressors	VOC (7)	1.74	(8)
MSSDICAM	Filter Purging	VOC (7)	0.22	(8)
MSSDICAM	Loading Rack	VOC (7)	0.40	(8)
MSSDICAM	Pumps A-204 C & D	VOC (7)	1.85	(8)
MSSDICAM	Tank Breathing	VOC (7)	0.01	(8)
MSSDICAM	Tank Fume Burner	VOC (7)	0.75	(8)
MSSDICAM	Tank Inspections	VOC (7)	11.16	(8)
MSSDICAM	Vacuum Trucks	VOC (7)	0.01	(8)
MSSDICAM	Wastewater Tank	VOC (7)	0.19	(8)
MSSDICAM	Uncontrolled Emission Caps	VOC (7)		0.11

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

(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> - total oxides of nitrogen

Project Number: 177889

<sup>(2)</sup> Specific point source name. For fugitive sources, use area name or fugitive source name.

PM - total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$ , as represented PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ , as

represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

 $\begin{array}{cccc} \text{CO} & \text{-} & \text{carbon monoxide} \\ \text{SO}_2 & \text{-} & \text{sulfur dioxide} \end{array}$ 

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

MeOH - methanol CH₃Cl - methyl chloride

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40

Code of Federal Regulations Part 63, Subpart C

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) Emission rate is an estimate and is enforceable through compliance with the applicable Special Condition(s) and permit application representations.
- (6) Operations are limited to 200 hours per year.
- (7) Total VOC is inclusive of all speciated emission rates.
- (8) Annual Cap of all uncontrolled MSS emissions
- (9) EPN Bailer-Cap caps the combined emissions for EPNs EB-2, EB-4, and EB-5 to the sum of the highest two emission rates for any of these boilers.

Date: <u>August 7, 2013</u>