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 | | |
|---------------------------|--|-----------------------------|----------------|---------|--|
| 7 01111 (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 | |
| EC-568 | Dicamba Bag Loading Dust Collector | PM ₁₀ | <0.01 | <0.01 | |
| | | PM _{2.5} | <0.01 | <0.01 | |
| EA-506 | D-505 Scrubber | VOC | 0.40 | 1.73 | |
| | | РМ | 0.01 | 0.04 | |
| | | PM ₁₀ | 0.01 | 0.04 | |
| | | PM _{2.5} | 0.01 | 0.04 | |
| ED-300A | Vent Scrubber (Tank J-300) | HCI | 0.09 | <0.01 | |
| ED-300 | HCI Unloading | HCI | 0.04 | 0.08 | |
| EB-141 | Tank Scrubber (HCl Tanks) | HCI | 0.41 | 0.14 | |
| ED-206A | Vent Absorber (Tank J-206) (6) | Dimethyl amine | 0.34 | 0.09 | |
| ED-206B | D-206B Vent Absorber (Tank J-205) | Diglycol amine | <0.01 | <0.01 | |

| Boiler-Cap | Boiler Emissions Cap (EB-2, EB-4, and EB-5) (9) | PM ₁₀ | 2.38 | 10.43 |
|------------|---|-------------------|-------|-------|
| | | PM _{2.5} | 2.38 | 10.43 |
| | | NO _x | 16.18 | 70.85 |
| | | СО | 14.83 | 44.95 |
| | | VOC | 1.59 | 6.95 |
| | | SO ₂ | 0.17 | 0.75 |
| EB-2 | Boiler No. 2 | PM ₁₀ | 0.72 | 3.16 |
| | | PM _{2.5} | 0.72 | 3.16 |
| | | NO _x | 9.40 | 41.17 |
| | | СО | 7.97 | 14.89 |
| | | VOC | 0.52 | 2.29 |
| | | SO ₂ | 0.06 | 0.25 |
| EB-4 | Boiler No. 4 | PM ₁₀ | 0.94 | 4.11 |
| | | PM _{2.5} | 0.94 | 4.11 |
| | | NO _x | 5.81 | 25.44 |
| | | СО | 3.28 | 14.37 |
| | | VOC | 0.54 | 2.37 |
| | | SO ₂ | 0.06 | 0.25 |
| EB-5 | Boiler No. 5 | PM ₁₀ | 0.72 | 3.16 |
| | | PM _{2.5} | 0.72 | 3.16 |
| | | NO _x | 0.97 | 4.24 |
| | | СО | 3.58 | 15.68 |
| | | VOC | 0.52 | 2.29 |
| | | SO ₂ | 0.06 | 0.25 |

| EK-275 | Dicamba Unit Fume Burner | HCI | 1.99 | 2.19 |
|--------|-----------------------------|-----------------------|-------|-------|
| | Fullie Bulliel | Cl ₂ | 0.02 | 0.01 |
| | | NO _x | 0.40 | 1.74 |
| | | МеОН | 1.81 | 0.08 |
| | | CH₃Cl | 0.38 | <0.01 |
| | | 1,2,4-TCB | 0.10 | 0.02 |
| | | PM ₁₀ | 0.03 | 0.13 |
| | | PM _{2.5} | 0.03 | 0.13 |
| | | СО | 0.33 | 1.46 |
| | | SO ₂ | <0.01 | 0.01 |
| | | Xylene | 0.32 | 0.06 |
| | | Diethylene triamine | <0.01 | <0.01 |
| | | Dimethyl amine | 1.21 | 0.04 |
| | | Diglycol amine | <0.01 | <0.01 |
| | | Dicamba | <0.01 | <0.01 |
| | | VOC | 2.05 | 0.11 |
| | | NaOH | 0.03 | <0.01 |
| | | КОН | 0.03 | <0.01 |
| | | Dichlorophenol | 0.02 | <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 |
| | | Dichloroanisole | <0.01 | <0.01 |
| | | Dimethyl Ether | <0.01 | <0.01 |

| EK-203 | K-203 Flare | HCI | <0.01 | <0.01 |
|---------|--|--------------------------|---------|---------|
| | | VOC (7) | 16.58 | 53.05 |
| | | Dimethyl ether | 15.19 | 49.49 |
| | | МеОН | 0.95 | 1.81 |
| | | Xylene | 0.36 | 1.44 |
| | | CH₃CI | 0.08 | 0.30 |
| | | NO _x | 2.79 | 9.02 |
| | | СО | 5.58 | 18.01 |
| | | SO ₂ | < 0.01 | < 0.01 |
| FUG | Dicamba Process Fugitives (5) | Xylene | 0.01 | 0.03 |
| | rugilives (5) | MeOH | 0.11 | 0.49 |
| | | 1,2,4-TCB | 0.80 | 3.49 |
| | | CH₃Cl | 0.40 | 1.75 |
| | | HCI | 0.71 | 3.12 |
| ED-107 | Tank J-107 Vent | VOC | 0.01 | 0.01 |
| | | MeOH | 0.01 | 0.01 |
| | | Sodium Dichlorophenol | <0.0001 | <0.0001 |
| | | NaCl | <0.01 | <0.01 |
| | | NaOH | <0.01 | <0.01 |
| NGFUG | Natural Gas Piping Fugitives (5) | VOC | 0.06 | 0.27 |
| EWW-TR3 | North Wastewater Tank Farm | VOC | 0.01 | 0.05 |
| COOLTWR | Cooling Tower (5) | VOC | 0.57 | 2.48 |
| | | PM ₁₀ | 0.07 | 0.30 |
| | | PM _{2.5} | 0.07 | 0.30 |

| Planned Main | ntenance, Startup, ar | nd Shutdown (M | ISS) Activities | |
|--------------|--|-----------------|-----------------|--------|
| EK-203 | K-203 Flare | VOC (7) | 105.35 | 0.46 |
| | | NO _x | 5.33 | 0.25 |
| | | СО | 18.29 | 0.53 |
| | | SO ₂ | 0.01 | < 0.01 |
| 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) |
| | Filter Purging | VOC (7) | 0.22 | (8) |
| | Loading Rack | VOC (7) | 0.40 | (8) |
| | Pumps A-204 C & D | VOC (7) | 1.85 | (8) |
| | Tank Breathing | VOC (7) | 0.01 | (8) |
| | Tank Fume Burner | VOC (7) | 0.75 | (8) |
| | Tank Inspections | VOC (7) | 11.16 | (8) |
| | Vacuum Trucks | VOC (7) | 0.01 | (8) |
| | Wastewater Tank | VOC (7) | 0.19 | (8) |
| | Uncontrolled Emission Caps | VOC (7) | | 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

Cl₂ - chlorine

NO_x - total oxides of nitrogen

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as

represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as

represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide SO₂ - sulfur dioxide

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

 $\begin{array}{cccc} \text{MeOH} & - & \text{methanol} \\ \text{CH}_3\text{Cl} & - & \text{methyl chloride} \\ \end{array}$

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 Boiler-Cap caps the combined emissions for EPNs EB-2, EB-4, and EB-5.

Date: January 15, 2016