Permit Number 9597

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.

| Emission | Source | Air Contaminant | Emission Rates * Ib/hr TPY* | |
|---------------|-----------------|---|--------------------------------------|--------------------------------------|
| Point No. (1) | Name (2) | Name (3) | ID/III | <u>IPY**</u> |
| Y-C-1 | Furnace F-9180 | VOC PM_{10} NO_{x} CO SO_{2} | 0.03 0.04 0.49 0.42 0.01 | 0.12 0.17 2.15 1.81 0.01 |
| Y-C-101 | Furnace F-91180 | VOC PM_{10} NO_x CO SO_2 | 0.04 0.05 0.64 0.54 0.01 | 0.16 0.22 2.80 2.35 0.01 |
| Y-C-201 | Furnace F-91280 | VOC PM_{10} NO_x CO SO_2 | 0.03 0.04 0.46 0.39 0.01 | 0.11 0.15 2.02 1.70 0.01 |
| Y-C-301 | Furnace F-91380 | VOC PM_{10} NO_x CO SO_2 | 0.03 0.04 0.46 0.39 0.01 | 0.11 0.15 2.02 1.70 0.01 |
| Y-D-1 | Flare X-9845 | VOC NO_x PM_{10} CO | 5.60 3.97 0.03 9.19 | 11.72 3.20 0.14 15.86 |
| Y-D-201 | Flare X-98245 | VOC NO _x SO ₂ CO | 10.64 0.74 0.01 4.90 | 11.15 1.27 0.01 7.53 |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emissior</u> lb/hr | n Rates * TPY** |
|---------------------------|-----------------------------|-----------------------------|-------------------------------|--------------------------------|
| Y-D-2 | Flare X-9846 | VOC NO_x PM_{10} CO | 5.00 0.75 40.98 3.86 | 0.38 3.84 16.92 20.11 |
| Y-D-3 | Caustic Scrubber R-9450/946 | 0 VOC PM ₁₀ | 0.65 9.80 | 1.45 17.51 |
| Y-D-203 | Caustic Scrubber R-94260 | VOC PM ₁₀ | 0.84 8.58 | 2.96 19.16 |
| Y-D-4 | Lime Scrubber R-94150 | VOC PM_{10} SiF_4 | 0.09 1.40 0.30 | 0.18 5.24 1.00 |
| Y-D-204 | Lime Scrubber R-94250 | VOC PM_{10} SiF_4 | 0.10 1.18 0.46 | 0.38 5.14 1.06 |
| Y-E-1 | Seal Pot D-9102 Vent | VOC | 0.02 | 0.02 |
| Y-E-201 | Seal Pot D-91202 Vent | VOC | 0.01 | 0.01 |
| Y-E-2 | Oil Scrubbers D-9104/D-9110 | 4 VOC PM ₁₀ | 0.53 3.63 | 0.91 3.16 |
| Y-E-202 | Oil Scrubber D-91204 | VOC PM ₁₀ | 0.40 6.48 | 0.88 0.96 |
| Y-E-3 | Scrubber S-9550 | HCI | 0.06 | 0.12 |
| Y-E-303 | Scrubber S-9537 | HCI | 0.06 | 0.12 |
| Y-E-4 | Baghouse SF-9620, SF-9621 | PM_{10} | 0.02 | 0.08 |
| Y-E-5 | Baghouse B-9420, SF-9420A/ | B PM ₁₀ | 0.10 | 0.37 |
| Y-E-105 | Baghouse B-94120, SF-94120 | DA/B PM ₁₀ | 0.10 | 0.37 |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission lb/hr | Rates * TPY** |
|---------------------------|-------------------------------------|-----------------------------|-------------------|---------------|
| Y-E-205 | Baghouse B-94220, SF-94220 <i>A</i> | VB PM ₁₀ | 0.09 | 0.41 |
| Y-E-305 | Baghouse B-94320, SF-94320 | PM_{10} | 0.09 | 0.41 |
| Y-E-6 | Baghouse B-9440 | PM_{10} | 0.38 | 1.47 |
| Y-E-7 | Vent VP-9840 | VOC | 0.09 | 0.11 |
| Y-E-207 | Vent VP-98240 | VOC | 0.04 | 0.17 |
| Y-E-8/Y-E-108 | Filters SF-9514/SF-95114 | PM_{10} | 0.01 | 0.01 |
| Y-E-9/Y-E-109 | Filters SF-9524/SF-95124 | PM_{10} | 0.01 | 0.01 |
| Y-E-10/Y-E-110 | Filters SF-9534/SF-95134 | PM_{10} | 0.01 | 0.01 |
| Y-E-11 | Filter SF-9624 | PM_{10} | 0.01 | 0.02 |
| Y-E-12 | Filter SF-9610 | PM_{10} | 0.01 | 0.02 |
| Y-E-13 | Filter SF-9160 | PM_{10} | 0.01 | 0.01 |
| Y-E-213 | Filter SF-91260 | PM_{10} | 0.01 | 0.01 |
| Y-E-14 | Vent LE-14 | PM_{10} | 3.42 | 0.37 |
| Y-E-15 | Vent LE-7B | VOC | 0.01 | 0.03 |
| Y-E-16/Y-E-116 | Vent K-9230/K-92130 | PM_{10} | 0.01 | 0.01 |
| Y-E-216 | Vent K-92230 | PM_{10} | 0.01 | 0.01 |
| Y-E-316 | Vent K-92330 | PM_{10} | 0.01 | 0.01 |
| Y-E-17 | Vent VP-9394 | VOC PM ₁₀ | 0.04 0.02 | 0.08 0.07 |
| Y-E-17A | VP-9395/VP-9397 | VOC PM ₁₀ | 0.04 0.03 | 0.12 0.07 |
| Y-E-18/Y-E-118 | R-9510/9520/9530/9540 Annulu | us PM ₁₀ | 0.45 | 1.63 |

| Emission | Source | Air Contaminant | \ <u></u> | |
|----------------|--|--|------------------------------|--------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| | R-95110/95120/95130/95140 95150/95160/95170 Annulus | | | |
| Y-E-19/Y-E-119 | K-9240/K-92140 | PM ₁₀ | 0.01 | 0.01 |
| Y-E-219 | K-92240 | PM_{10} | 0.01 | 0.01 |
| Y-E-319 | K-92340 | PM_{10} | 0.01 | 0.01 |
| Y-E-20 | Filter SF-9655 | PM_{10} | 0.01 | 0.01 |
| Y-E-21 | Filter SF-9615 | PM_{10} | 0.01 | 0.02 |
| Y-E-22/Y-E-122 | Filter SF-9544/SF-95144 | PM_{10} | 0.01 | 0.01 |
| Y-E-23/Y-E-123 | Vent K-9511/K-95111 | PM_{10} | 0.02 | 0.03 |
| Y-E-24 | Vent K-9521 | PM_{10} | 0.01 | 0.02 |
| Y-E-25 | Filter LE-23 | VOC | 0.03 | 0.06 |
| Y-E-26 | Vent LE-42 | VOC | 0.01 | 0.02 |
| Y-E-27 | Vent LE-47 | VOC | 0.01 | 0.02 |
| Y-E-28 | Vent K-9250 | PM_{10} | 0.01 | 0.01 |
| Y-E-129 | Filter SF-95154 | PM_{10} | 0.01 | 0.01 |
| Y-E-229 | Filter SF-95254 | PM_{10} | 0.01 | 0.01 |
| Y-GZ-1 | Fugitives (4) | VOC Silane Compounds SiF₄ HCl | 8.24 3.76 0.32 0.26 | 36.10 16.51 1.56 0.98 |
| Y-GZ-2 | SAF Loading Fugitives (4) | VOC PM ₁₀ | 0.01 0.94 | 0.01 0.86 |

| Emission | Source | Air Contaminant | minant <u>Emission Rates</u> | |
|------------------------------------|-------------------------------|---|------------------------------|--------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| Y-GZ-202 | SAF Loading Fugitives (4) | VOC | 0.01 | 0.01 |
| | 3 3 () | PM_{10} | 0.56 | 0.51 |
| V 67 202 | CAE Looding Evoitives (4) | \/OC | 0.01 | 0.01 |
| Y-GZ-302 | SAF Loading Fugitives (4) | VOC PM ₁₀ | 0.01 0.56 | 0.01 0.51 |
| | | 1 14170 | 0.50 | 0.51 |
| ABRASMAINT | Abrasive Blasting | PM | 1.29 | 0.07 |
| | | PM_{10} | 0.15 | 0.01 |
| COLUMNMSS | Column MSS Sitewide | VOC | 0.39 | < 0.01 |
| | | NaOH | 1.32 | < 0.01 |
| | D/514 MOO O' T.I | 1/00 | 0.17 | 0.00 |
| PMP/FILMS | Pump/Filter MSS Sitewide | VOC | 0.17 | 0.02 |
| EXCHMSS | Exchanger MSS Sitewide | VOC | 4.29 | 0.38 |
| TANKMSS | Tank/Agitator MSS Sitowida | VOC | 0.50 | <0.01 |
| TANKMSS Tank/Agitator MSS Sitewide | | SiF ₄ | 0.50 | 0.01 |
| | | NaOH | 0.61 | < 0.01 |
| | | | | |
| DRUMMSS | Drum/Furnace/Agitator | VOC | 2.97 | 0.02 |
| | MSS Sitewide | | | |
| BAGHSEMSS | Baghouse MSS Sitewide | PM_{10} | 1.00 | 0.10 |
| WELDMSS | Welding | PM ₁₀ | 0.28 | <0.01 |
| WELDINI33 | Welding | HAP | 0.28 | <0.01 |
| | | | | |
| AEROSOLMSS | Aerosol MSS Sitewide | VOC | 0.85 | 0.02 |
| VACUUMMSS | Vacuum MSS Sitewide | VOC | 0.14 | <0.01 |
| Y-D-1 MSS | Organic Flare | VOC | 3.53 | 0.04 |
| | 3 | SiH ₄ | 0.68 | < 0.01 |
| Y-D-2 MSS | Inorganic Flare | VOC | 0.43 | <0.01 |
| 1-D-5 18133 | morganic Flate | VOC | 0.43 | ~U.UI |
| Y-D-201 MSS | Organic Flare | VOC | 3.57 | 0.04 |
| Y-E-404 MSS | Wastewater Holdup Tank | VOC | 0.09 | 0.38 |
| 10111100 | Tactoriator Holdap Farin | • | 5.00 | 3.00 |

AIR CONTAMINANTS DATA

| Emission | Source | Air Contaminant | Emission Rates * | | |
|---------------|-------------------------------------|------------------|------------------|-------|--|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** | |
| Y-E-420 | Seed Generator SF-96420 Baghouse | PM ₁₀ | <0.01 | <0.01 | |
| Y-E-421 | Seed Generator SF-96421 Baghouse | PM ₁₀ | <0.01 | <0.01 | |

- (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 an area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

 NO_x - total oxides of nitrogen

PM - particulate matter

PM₁₀ - particulate matter equal to or less than 10 microns in diameter.

CO - carbon monoxide
HCl - hydrogen chloride
SO₂ - sulfur dioxide
NaOH - sodium hydroxide

HAP - hazardous air pollutants

SiF₄ - silicon tetrafluoride

SiH₄ - silane (silicon tetrahydride)

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

| * | Emission rates schedule: | are based | on and | the | facilities | are | limited | by | the | following | maximum | operating |
|---|--------------------------|-----------|--------|-----|------------|-------------|---------------|------|-----|-----------|---------|-----------|
| | Hrs/day | Days/wee | ek\ | Wee | ks/year o | r <u>8,</u> | <u>760</u> Hr | s/ye | ear | | | |

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

Dated August 11, 2009