Permit Number 19886

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 * | |
|---------------|---|--|--------------------------------------|--------------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY ** |
| 8-1-003 | W-900A Recovery Vaporizer | CO NO_{x} PM_{10} SO_{2} VOC | 1.16 1.39 0.11 0.01 0.08 | 5.10 6.07 0.46 0.04 0.33 |
| 8-1-004 | Strand Room Vent (5) | VOC | 1.66 | 7.97 |
| 8-1-005 | Stand Room Vent (5) | VOC | 1.66 | 7.97 |
| 8-1-007 | W-40S Backup Vaporizer | CO NO_x PM_{10} SO_2 VOC | 0.43 0.52 0.04 0.01 0.03 | 1.90 2.26 0.17 0.01 0.12 |
| 8-1-008 | B-1 Storage Tank | VOC | 0.01 | 0.01 |
| 8-1-009 | B-23 Storage Tank | VOC | 1.23 | 0.01 |
| 8-1-010 | Propionic Acid Process Fugitives (4) | VOC | 0.46 | 2.01 |
| 8-1-012 | Bulk Storage Silos | PM ₁₀ PM | 0.82 2.11 | 3.52 9.04 |
| 8-1-014 | B-195 Process Vessel | VOC | 0.01 | 0.01 |
| 8-1-015 | B-63A Process Vessel | VOC | 0.01 | 0.01 |

| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|----------------------------|------------------------|------------------|--------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY ** |
| 8-1-017 | D-900 Process Vessel | VOC | 0.06 | 0.01 |
| 8-1-018 | D-920 Process Vessel | VOC | 0.05 | 0.01 |
| 8-1-019 | D-940 Process Vessel | VOC | 0.02 | 0.01 |
| 8-1-020 | D-950 Process Vessel | VOC | 0.05 | 0.01 |
| 8-1-021 | D-984 Process Vessel | VOC | 0.01 | 0.01 |
| 8-1-024 | B-130A&B Process Vessel | VOC | 0.34 | 0.01 |
| 8-1-025 | B-143 Process Vessel | VOC | 0.30 | 0.01 |
| 8-1-026 | A-27A Storage Tank | VOC | 0.01 | 0.01 |
| 8-1-027 | A-27B Storage Tank | VOC | 0.02 | 0.01 |
| 8-1-028 | B-200 Process Vessel | VOC | 0.01 | 0.01 |
| 8-1-030 | Packaging Silos | PM ₁₀ PM | 0.69 1.98 | 2.97 8.49 |
| 8-1-031 | Cooling Towers | VOC | 0.01 | 0.01 |
| 8-1-032 | D-949 Process Vessel | VOC | 0.01 | 0.01 |
| 8-1-033 | D-945 Process Vessel | VOC | 0.01 | 0.02 |
| 8-1-035 | T-907 Catalyst Scrubber | PM ₁₀ PM | 0.01 0.01 | 0.01 0.05 |
| 8-1-036 | B-27 Reactor Refeed Hopper | PM ₁₀ | 0.02 0.06 | 0.02 0.05 |

| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|--------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY ** |
| 8-1-037 | Recovered Caprolactam Load | ding VOC | 0.08 | 0.01 |
| 8-1-038 | Spent Heating Fluid Loading | VOC | 0.01 | 0.01 |
| 8-1-039 | B-125 Storage Tank | Carbonic Dihydrazide | 0.01 | 0.01 |
| 8-1-040 | F-155 Solid Additive Hopper | PM ₁₀ PM | 0.46 0.68 | 1.97 2.94 |
| 8-1-041 | Seal Pots | VOC | 0.04 | 0.16 |
| 8-1-042 | Slurry Drums | VOC | 0.05 | 0.20 |
| 8-1-043 | B-2 TAD Storage Tank | VOC | 0.08 | 0.01 |
| 8-1-044 | TAD Process Fugitives (4) | VOC | 0.01 | 0.05 |
| 8-1-045 | D-990 Process Vessel | VOC | 0.06 | 0.01 |
| 8-1-046 | B-66 Diesel Tank | VOC | 0.07 | 0.01 |
| 8-1-101 | W-50C Vaporizer (Reactor Train 3) | CO NO_x PM_{10} SO_2 VOC | 0.72 0.86 0.07 0.01 0.05 | 3.16 3.77 0.29 0.02 0.21 |
| 8-1-201 | W-50D Vaporizer (Reactor Train 4) | CO NO_x PM_{10} SO_2 VOC | 0.72 0.86 0.07 0.01 0.05 | 3.16 3.77 0.29 0.02 0.21 |
| 8-1-300 | W-40C Vaporizer | СО | 0.43 | 1.90 |

| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|--|------------------------------------|--------------------------------------|--------------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY ** |
| | (Reactor Train No. 1) | NO_x PM_{10} SO_2 VOC | 0.52 0.04 0.01 0.03 | 2.26 0.17 0.01 0.12 |
| 8-1-400 | W-40D Vaporizer (Reactor Train No. 2) | CO NO_x PM_{10} SO_2 VOC | 0.43 0.52 0.04 0.01 0.03 | 1.90 2.26 0.17 0.01 0.12 |
| 8-1-500 | W-40E Vaporizer (Reactor Train No. 5) | CO NO_x PM_{10} SO_2 VOC | 0.43 0.52 0.04 0.01 0.03 | 1.90 2.26 0.17 0.01 0.12 |
| 8-1-600 | W-50F Vaporizer (Reactor Train No. 6) | CO NO_x PM_{10} SO_2 VOC | 0.72 0.86 0.07 0.01 0.05 | 3.16 3.77 0.29 0.02 0.21 |
| 8-1-700 | W-50G Vaporizer (Reactor Train No. 7) | CO NO_x PM_{10} SO_2 VOC | 0.72 0.86 0.07 0.01 0.05 | 3.16 3.77 0.29 0.02 0.21 |
| 8-1-607 | CY-94F1 Train 6 Separator Cyclone | PM ₁₀ PM | 0.10 0.27 | 0.40 1.13 |

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| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|---------------------------|------------------|------------------|--------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY ** |
| | | | | _ |
| 8-1-608 | CY-94F2 Train 6 Separator | PM_{10} | 0.10 | 0.40 |
| | Cyclone | PM | 0.27 | 1.13 |
| 8-1-701 | CY-94G1 Train 7 Separator | PM_{10} | 0.11 | 0.46 |
| 0 1 1 0 1 | Cyclone | PM | 0.30 | 1.32 |
| 8-1-702 | CY-94G2 Train 7 Separator | PM ₁₀ | 0.11 | 0.46 |
| | Cyclone | PM | 0.30 | 1.32 |
| 8-1-800 | W-50G Vaporizer | СО | 0.95 | 4.17 |
| | (Reactor Train No. 8) | NO_x | 1.13 | 4.96 |
| | , | PM_{10} | 0.09 | 0.38 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.06 | 0.27 |

- (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) CO carbon monoxide
 - NO_x total oxides of nitrogen
 - PM particulate matter, suspended in the atmosphere, including PM₁₀
 - PM_{10} particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - SO₂ sulfur dioxide
 - TAD triacetone diamine
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Authorized emissions of Emission Point No. (EPN) 8-1-004. Sum of EPNs 8-1-004 and 8-1-005 emissions can not exceed EPN 8-1-004 limits.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
- ______24 Hrs/day ___7 Days/week ___52 Weeks/year

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AIR CONTAMINANTS DATA

| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|----------|-----------------|------------------|--------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY ** |

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

Dated April 18, 2011