Permit Number 9395

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 | | |
|-------------------------------|---|-----------------------------|----------------|---------|--|
| | | | lbs/hour | TPY (4) | |
| E-AB1 | Loading Spot No. AB1 (7) | MPG | 1.30 | 0.39 | |
| E-AB2 | Loading Spot No. AB2 (7) | MPG | 1.30 | 0.39 | |
| E-ANALYZER | Process Analyzers | voc | 0.79 | 1.73 | |
| | | NO _x | 0.01 | 0.01 | |
| | | со | 0.01 | 0.02 | |
| | | Acetone | 0.10 | 0.33 | |
| E-B801N&S | Hot Oil Heater B801 (note this heater has two stacks, North & South, rates are for the combined emission) | voc | 0.68 | 2.38 | |
| | | NO _x | 12.38 | 43.22 | |
| | | со | 10.40 | 36.31 | |
| | | PM ₁₀ | 0.94 | 3.29 | |
| | | SO ₂ | 1.86 | 0.26 | |
| E-B901 | Process Heater B-901 | voc | 0.10 | 0.34 | |
| | | NO _x | 1.82 | 6.12 | |
| | | со | 1.53 | 5.14 | |
| | | PM ₁₀ | 0.14 | 0.47 | |
| | | SO ₂ | 0.27 | 0.04 | |
| E-B902A | Process Heater B902A | voc | 0.09 | 0.32 | |
| | | NO _x | 1.71 | 5.84 | |
| | | со | 1.43 | 4.91 | |
| | | PM ₁₀ | 0.13 | 0.44 | |
| | | SO ₂ | 0.26 | 0.04 | |

| E-B902B | Process Heater B902B | voc | 0.08 | 0.28 |
|----------|-------------------------------|------------------|--------|--------|
| | | NO _x | 1.49 | 5.15 |
| | | со | 1.25 | 4.33 |
| | | PM ₁₀ | 0.11 | 0.39 |
| | | SO ₂ | 0.22 | 0.03 |
| E-B902C | Process Heater 902C | voc | 0.07 | 0.23 |
| | | NO _x | 1.24 | 4.21 |
| | | СО | 1.04 | 3.53 |
| | | PM ₁₀ | 0.09 | 0.32 |
| | | SO ₂ | 0.19 | 0.03 |
| E-B1550 | Flare | voc | 342.74 | 74.09 |
| | | NO _x | 68.71 | 27.15 |
| | | со | 357.28 | 141.19 |
| | | SO ₂ | 6.14 | 0.22 |
| | | Acetone | 30.00 | 15.39 |
| E-B1501A | Emergency Flare Plant 1 Pilot | NO _x | 0.04 | 0.16 |
| | | со | 0.07 | 0.32 |
| | | SO ₂ | < 0.01 | 0.02 |
| | Process Flare Backup (6) | voc | 60.79 | 7.29 |
| | | NO _x | 7.95 | 0.95 |
| | | со | 68.14 | 8.18 |
| | | SO ₂ | 6.14 | 0.03 |
| | | Acetone | 3.51 | 0.42 |

| E-B1501B | Emergency Flare Plant 2 Pilot | NO _x | 0.03 | 0.13 |
|----------|-------------------------------|-----------------|------|------|
| | | со | 0.06 | 0.25 |

| | | SO ₂ | < 0.01 | 0.01 |
|----------|----------------------------------|------------------|--------|--------|
| | Process Flare Backup (6) | VOC | 60.79 | 7.29 |
| | | NO _x | 7.95 | 0.95 |
| | | СО | 68.14 | 8.18 |
| | | SO ₂ | 6.14 | 0.03 |
| | | Acetone | 3.51 | 0.42 |
| E-B1501C | Emergency Flare Plant 3 Pilot | NO _x | 0.03 | 0.13 |
| | | СО | 0.06 | 0.25 |
| | | SO ₂ | < 0.01 | < 0.01 |
| | Process Flare Backup (6) | VOC | 60.79 | 7.29 |
| | | NO _x | 7.95 | 0.95 |
| | | СО | 68.14 | 8.18 |
| | | SO ₂ | 6.14 | 0.03 |
| | | Acetone | 3.51 | 0.42 |
| E-B1751 | Hot Oil Heater B1751 | VOC | 0.08 | 0.29 |
| | | NO _x | 1.44 | 5.26 |
| | | СО | 1.21 | 4.42 |
| | | PM ₁₀ | 0.11 | 0.40 |
| | | SO ₂ | 0.22 | 0.03 |
| E-B2890 | Hot Oil Heater B2890 | VOC | 0.45 | 1.57 |
| | | NO _x | 8.21 | 28.54 |
| | | СО | 6.90 | 23.97 |
| | | PM ₁₀ | 0.62 | 2.17 |
| | | SO ₂ | 1.23 | 0.17 |
| | 1 | • | ' | 1 |
| E-BLOFUG | PO/TBA & Derivative Fugitives (5 | o) voc | 52.57 | 194.54 |
| | | СО | 0.39 | 1.42 |
| | | Acetone | 1.86 | 6.95 |
| | | | | |

DPG

0.75

0.19

Project Number: 299103

E-CD4A

Loading Spot No. CD4A (7)

| E-CD5B | Loading Spot No. CD5B | MPG | 0.54 | 0.16 |
|----------|--|---------------------|--------|--------|
| E-CD6A | Loading Spot No. CD6A | MPG | 0.54 | 0.16 |
| E-CTC | Cooling Tower Chemicals Storage Inhibitor and Dispersant | Additives | 3.27 | 0.02 |
| E-Engine | Diesel Engines (7) | voc | 10.48 | 6.57 |
| | | NO _x | 95.47 | 40.29 |
| | | со | 26.97 | 15.75 |
| | | PM ₁₀ | 9.19 | 5.76 |
| | | SO ₂ | 8.56 | 5.36 |
| E-F551 | Tank No. F551 | Propylene Carbonate | < 0.01 | < 0.01 |
| E-F1005B | Tank No. F1005B | PG | 0.27 | <0.01 |
| E-F1005C | Tank No. F1005C | PG | 0.27 | < 0.01 |
| E-F1101A | Tank No. F1101A | DPG | 0.34 | 0.06 |
| E-F1101B | Tank No. F1101B | DPG | 0.34 | 0.06 |
| E-F1101C | Tank No. F1101C | PGME | 4.92 | 1.74 |
| E-F1101D | Tank No. F1101D | PGME | 4.92 | 1.74 |
| E-F1102A | Tank No. F1102A | MPG | 4.17 | 0.18 |
| E-F1102B | Tank No. F1102B | MPG | 4.17 | 0.18 |
| E-F1102C | Tank No. F1102C | MPG | 4.17 | 0.18 |
| E-F1102D | Tank No. F1102D | PG | 3.44 | 0.10 |
| E-F1103A | Tank No. F1103A | DPM | 0.47 | 0.05 |
| E-F1103B | Tank No. F1103B | DPM | 0.47 | 0.05 |
| E-F1103C | Tank No. F1103C | TPG | 0.26 | < 0.01 |
| E-F1103D | Tank No. F1103D | TPG | 0.26 | < 0.01 |
| E-F1104A | Tank No. F1104A | PG | 4.04 | 0.01 |
| E-F1104B | Tank No. F1104B | PG | 4.04 | 0.01 |
| E-F1104C | Tank No. F1104C | DPG | 0.90 | 0.55 |
| E-F1105A | Tank No. F1105A | PG | 5.29 | 0.74 |
| E-F1105B | Tank No. F1105B | PG | 5.29 | 0.74 |
| E-F1108A | Tank No. F1108A | DPM Bottoms | 0.17 | 0.07 |

| E-F1109 | Tank No. F1109 | TPG Bottoms | 0.38 | 0.02 |
|----------|------------------|----------------|--------|--------|
| E-F1110 | Tank No. F1110 | DPG | 0.35 | 0.07 |
| E-F1164 | Tank No. F1164 | DPM | 9.13 | 0.14 |
| E-F1204 | Tank No. F1204 | Caustic | 0.10 | < 0.01 |
| E-F1205 | Tank No. F1205 | Caustic | 0.02 | < 0.01 |
| E-F1280 | Tank No. F1280 | TPG | 0.02 | 0.004 |
| E-F1411 | Tank No. F1411 | Diesel | 0.04 | < 0.01 |
| E-F1412 | Tank No. F1412 | Diesel | 0.04 | < 0.01 |
| E-F1413 | Tank No. F1413 | Diesel | 0.08 | < 0.01 |
| E-F1414 | Tank No. F1414 | Diesel | 0.08 | < 0.01 |
| E-F1415 | Tank No. F1415 | Diesel | 0.08 | < 0.01 |
| E-F1418 | Tank No. F1418 | Diesel | 0.42 | < 0.01 |
| E-F1419 | Tank No. F1419 | Gasoline | 75.84 | 0.98 |
| E-F1455A | Tank No. F1455A | Diesel | 0.04 | < 0.01 |
| E-F1455B | Tank No. F1455B | Diesel | 0.04 | < 0.01 |
| E-F1457A | Tank No. F1457A | Diesel | 0.04 | < 0.01 |
| E-F1457B | Tank No. F1457B | Diesel | 0.04 | < 0.01 |
| E-F1503B | Tank No. F1503B | Caustic | < 0.01 | < 0.01 |
| E-F1740 | Tank No. F1740 | Tert-butanol | 17.58 | 1.25 |
| E-F1784 | Tank No. F1784 | DPG Seal Flush | 0.10 | < 0.01 |
| E-F2340 | Tank No. F2340 | ТВА | 14.68 | 2.05 |
| E-F2351 | Hopper No. F2351 | PM | 0.70 | 0.01 |
| E-F2835 | Tank No. 2835 | PG | 5.88 | 1.28 |
| E-F2866 | Tank No. 2866 | PG | 0.16 | 0.03 |
| E-F3342A | Tank No. F3342A | Catalyst | 0.10 | 0.0004 |
| | | РМ | 0.70 | 0.02 |
| E-F3342B | Tank No. F3342B | Catalyst | 0.10 | 0.0004 |
| | | РМ | 0.70 | 0.02 |
| E-FTOTE | Chemical Totes | VOC | 0.14 | < 0.01 |
| | | • | | • |

| | | H ₂ SO ₄ | 0.005 | < 0.0001 |
|----------|-----------------------------|--------------------------------|--------|----------|
| E-FUGMNT | Solvent Degreasing (5) | VOC | 0.04 | 0.12 |
| E-FUGPNT | Surface Coating/ | VOC | 4.05 | 1.39 |
| | Abrasive Blasting (5) | PM | 3.49 | 0.29 |
| | | PM ₁₀ | 0.91 | 0.19 |
| E-LAB | Lab Exhaust Vent | voc | 5.20 | 1.15 |
| E-LR4C | Loading Spot No. LR4C | TPG | 0.05 | 0.002 |
| E-SAMPLE | Sample Points | voc | 3.28 | 3.01 |
| E-SOAP | Detergent Drums | Detergent | 4.77 | 0.06 |
| E-T5 | Loading Spot No. T5 | DPG | 0.31 | 0.08 |
| E-T10 | Loading Spot No. T10 (7) | MPG | 1.30 | 0.20 |
| E-T12 | Loading Spot No. T12 | MPG | 0.54 | 0.08 |
| E-T23 | Loading Spot No. T23 | TPG Bottoms | 1.15 | 0.04 |
| E-T25 | Loading Spot No. T25 | Spent Caustic | < 0.01 | < 0.01 |
| | | VOC | 0.03 | < 0.01 |
| | | Acetone | 0.01 | < 0.01 |
| E-U1801 | BPI Cooling Tower (5) | VOC | 0.78 | 3.42 |
| | | Acetone | 0.08 | 0.34 |
| | | PM ₁₀ | 0.37 | 1.64 |
| E-U1802 | BPII Cooling Tower (5) | VOC | 1.38 | 6.05 |
| | | Acetone | 0.14 | 0.60 |
| | | PM ₁₀ | 0.66 | 2.90 |
| E-U1803 | BPIII Cooling Tower (5) | VOC | 1.08 | 4.73 |
| | | Acetone | 0.11 | 0.47 |
| | | PM ₁₀ | 1.30 | 5.68 |
| E-V3000 | Affected Soil Storage Vault | TBA | 2.92 | 1.36 |

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

- total oxides of nitrogen NO_{x} - carbon monoxide CO

PM Project Number: 299103 - 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

SO₂ - sulfur dioxide

PG - propylene glycols (can include MPG, DPG, and/or TPG)

MPG - monopropylene glycol

PGME - propylene glycol mono-methyl ether

DPG - dipropylene glycol

DPM - dipropylene glycol mono-methyl ether

TPG - tripropylene glycol H₂SO₄ - sulfuric acid

(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) Process emissions from emergency flares (E-B1501A, E-B1501B, and E-B1501C) are permitted for periods in which the continuous flare (E-B1550) is not available to the plant area. The emissions do not reflect incremental potential to emit. The sum of the permitted emissions from these sources shall not exceed the continuous flare (E-B1550) permitted rate when controlling process emissions.
- (7) This emission limit is a combination of the emission authorized in this permit and emissions authorized in Permits-by-Rule (PBRs) claimed prior to June 30, 2010 being incorporated be reference. Documentation of compliance with the PBRs shall be maintained on site.
- (8) This source was replaced through PBRs claimed prior to October 2007 and is authorized for the emissions noted through the PBRs. Documentation of compliance with the PBRs shall be maintained on site.

| Date: | January 24, 2020 |
|-------|------------------|
|-------|------------------|