Permit Numbers 9423 and N202

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 | | |
|---------------------------|-----------------------------|--------------------------|----------------|---------|--|
| 140. (1) | | (6) | lbs/hour | TPY (4) | |
| EPNs Common to | C-Line, D-Line, and E-Line | | | | |
| 30 + 34 | LOG Flare (EPN 30) and | VOC (6) (11) | 153.73 | 77.69 | |
| | Elevated Flare (EPN 34) (7) | Ethylene (11) | 153.73 | 77.69 | |
| | | Propylene (11) | 153.73 | 77.69 | |
| | | NO _x (11) | 24.84 | 19.89 | |
| | | CO (11) | 200.80 | 160.74 | |
| | | SO ₂ (11) | 0.79 | 2.46 | |
| | | VOC (6) (10) | 143.70 | 75.50 | |
| | | Ethylene (10) | 143.70 | 75.50 | |
| | | Propylene (10) | 143.70 | 75.50 | |
| | | NO _x (10) | 19.71 | 10.40 | |
| | | CO (10) | 159.40 | 84.07 | |
| | | SO ₂ (10) | 0.78 | 2.13 | |
| 98 | D-885 Waste Oil Loading | VOC (11) | 0.06 | <0.01 | |
| | | VOC (10) | 2.02 | 0.06 | |
| PP-ANALYZER | HRVOC Analyzer Vents | voc | 0.05 | 0.22 | |
| | | NO _x | 0.01 | 0.01 | |
| | | со | 0.01 | 0.01 | |
| Cooling Towers | | <u>'</u> | | | |
| 99 | West Marley Cooling Tower | VOC (5) (6) | 1.89 | 6.20 | |
| | | Ethylene | 1.89 | 6.20 | |
| | | Propylene | 1.89 | 6.20 | |
| | | PM | 0.59 | 1.94 | |
| | | PM ₁₀ | 0.33 | 1.09 | |

| | | PM _{2.5} | <0.01 | <0.01 |
|-------------|---------------------------------|------------------------|-------|-------|
| 146 | East Marley Cooling Tower | VOC (5) (6) | 0.57 | 2.49 |
| | | Ethylene | 0.57 | 2.49 |
| | | Propylene | 0.57 | 2.49 |
| | | PM | 0.18 | 0.77 |
| | | PM ₁₀ | 0.18 | 0.77 |
| | | PM _{2.5} | 0.18 | 0.77 |
| 151 | Excel Marley 3 Cooling Tower | VOC (5) (6) | 1.28 | 5.58 |
| | | Ethylene | 1.28 | 5.58 |
| | | Propylene | 1.28 | 5.58 |
| | | PM | 0.40 | 1.75 |
| | | PM ₁₀ | 0.22 | 0.98 |
| | | PM _{2.5} | <0.01 | <0.01 |
| 155 | DLX Cooling Tower (12) | PM (11) | 0.14 | 0.15 |
| | | PM ₁₀ (11) | 0.02 | 0.07 |
| | | PM _{2.5} (11) | <0.01 | <0.01 |
| C-Line EPNs | | | | |
| 39 | D-3106 Catalyst Handling Drum | VOC | <0.01 | <0.01 |
| 40 | D-3504 Stabilizer Addition Drum | VOC | <0.01 | <0.01 |
| | | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| 109 | D-3103 TEAL Seal Pot Drum | VOC | <0.01 | <0.01 |
| 110 | D-3105 Oil and Grease Mixing | VOC | <0.01 | <0.01 |
| 111 | D-3107 Hydraulic Oil Drum | VOC | <0.01 | <0.01 |
| 112 | D-3110A Donor Storage Drum | VOC | <0.01 | <0.01 |
| 113 | D-3110B Donor Storage Drum | VOC | <0.01 | <0.01 |
| 114 | TK-3111 Donor Storage Drum | VOC | <0.01 | <0.01 |

| 35 | Fugitives (5) | VOC | 5.17 | 22.65 |
|-------------|-----------------------------------|-------------------|-------|-------|
| 143 | Mineral Oil Tank | voc | 0.05 | <0.01 |
| 144 | Mineral Oil Tank | voc | 0.05 | <0.01 |
| 160 | Mineral Oil Tank | voc | 0.01 | 0.01 |
| 149 | D-3106B Catalyst Handling Drum | voc | <0.01 | <0.01 |
| D-Line EPNs | 3 | | | |
| 37 | D-4106 Catalyst Unloading | voc | <0.01 | <0.01 |
| 38 | D-4504 Stabilizer Addition | VOC | <0.01 | <0.01 |
| | | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| 41 | Fugitives (5) | VOC | 3.67 | 16.07 |
| 103 | D-4105 Oil and Grease Mixing | VOC | <0.01 | <0.01 |
| 104 | D-4110A Donor Storage Drum | VOC | <0.01 | <0.01 |
| 105 | D-4110B Donor Storage Drum | VOC | <0.01 | <0.01 |
| 106 | TK-4111 Donor Storage Drum | VOC | <0.01 | <0.01 |
| 107 | D-4103 TEAL Seal Pot | VOC | <0.01 | <0.01 |
| 156 | D4107 Hydraulic Oil Drum | voc | <0.01 | <0.01 |
| E-Line EPNs | ; | | | |
| 50A | Catalyst Handling | voc | 0.42 | 0.03 |
| 50B | Catalyst Handling | VOC | 0.42 | 0.04 |
| 51 | Stabilizer Addition | VOC | 0.01 | 0.01 |
| 124 | TEAL Seal Pot | VOC | 0.01 | 0.01 |
| 125 | Oil and Grease Mixing | VOC | 0.01 | 0.01 |
| 126 | Hydraulic Oil Drum | VOC | 0.01 | 0.01 |
| 127 | Donor Storage Drum | VOC | 0.02 | 0.01 |
| 128 | Donor Storage Drum | VOC | 0.02 | 0.01 |
| 129 | Donor Storage Drum | VOC | 0.02 | 0.01 |
| | | | • | • |

| | | <u> </u> | | |
|-----------|--------------------------------------|-------------------|-----------------------|-------|
| 135 | Additive Surge Drum | VOC | 0.01 | 0.01 |
| 52 | Fugitives (5) | VOC | 7.73 | 33.78 |
| 147 | Additive Storage | VOC | 0.06 | 0.01 |
| 148 | Additive Storage | VOC | 0.02 | 0.01 |
| EPNs Comr | mon to C-Line, D-Line, and E-Line Po | lymer Transfer, I | Extrusion and Loading | |
| 120 | M-574 Bag Filter | VOC | (8) | (8) |
| | | PM | 0.21 | 0.90 |
| | | PM ₁₀ | 0.21 | 0.90 |
| | | PM _{2.5} | 0.21 | 0.90 |
| 122 | M-2574 Bag Filter | VOC | (8) | (8) |
| | | PM | 0.21 | 0.90 |
| | | PM ₁₀ | 0.21 | 0.90 |
| | | PM _{2.5} | 0.21 | 0.90 |
| 102 | Railcar Loading/VOC Residual | VOC | (8) | (8) |
| 116 | Railcar Loading (Flake) | VOC | (8) | (8) |
| 152 | DLX Flake Transfer | VOC | (8) | (8) |
| | | РМ | 0.13 | 0.56 |
| | | PM ₁₀ | 0.13 | 0.56 |
| | | PM _{2.5} | 0.13 | 0.56 |
| 153 | DLX Pellet Silos | VOC | (8) | (8) |
| 154 | DLX Railcar Loading | VOC | (8) | (8) |
| | | PM | 0.20 | 0.88 |
| | | PM ₁₀ | 0.20 | 0.88 |
| | | PM _{2.5} | 0.20 | 0.88 |
| 14C | Pellet Transfer System | VOC | (8) | (8) |
| | | PM | 0.06 | 0.26 |
| | | PM ₁₀ | 0.06 | 0.26 |
| | | PM _{2.5} | 0.06 | 0.26 |
| 131 | Pellet Transfer System | VOC | (8) | (8) |
| | | РМ | 0.10 | 0.43 |

| | PM ₁₀ | 0.10 | 0.43 |
|--------------------------------------|--|--|---------|
| | PM _{2.5} | 0.10 | 0.43 |
| Railcar Loading CLX | VOC | (8) | (8) |
| | РМ | 0.05 | 0.20 |
| | PM ₁₀ | 0.05 | 0.20 |
| | PM _{2.5} | 0.05 | 0.20 |
| Railcar Loading ELX | VOC | (8) | (8) |
| | РМ | 0.69 | 2.25 |
| | PM ₁₀ | 0.69 | 2.25 |
| | PM _{2.5} | 0.69 | 2.25 |
| DLX/ELX Peroxide Feed Tank | VOC | <0.01 | <0.01 |
| CLX Peroxide Feed Tank | VOC | <0.01 | <0.01 |
| VOC Emission Cap for EPNs | VOC (11) | 9.75 | 19.39 |
| 154, 14C, 131, 132, and 133 | VOC (10) | 3.02 | 9.29 |
| | Acetone | 7.36 | 26.19 |
| Polypropylene Waste Water | VOC | 1.95 | 0.87 |
| Startup, and Shutdown Activities | | | <u></u> |
| LOG Flare and Elevated Flare | VOC (6) | 540.00 | (9) |
| INISS ACTIVITIES (1) | Ethylene | 265.00 | (9) |
| | Propylene | 540.00 | (9) |
| | NO _x | 74.50 | (9) |
| | СО | 602.14 | (9) |
| C-Line Maintenance Shutdown | VOC | 15.48 | 0.06 |
| D-Line Maintenance Shutdown | VOC | 15.48 | 0.06 |
| E-Line Maintenance Shutdown | VOC | 26.22 | 0.10 |
| Bullets Area Maintenance Shutdown | voc | 26.22 | 0.01 |
| Monomer Supplier Proving | voc | 0.01 | 0.01 |
| C-Line Compressor Maintenance | voc | 0.01 | 0.01 |
| D-Line Compressor Maintenance | VOC | 0.01 | 0.01 |
| | Railcar Loading ELX DLX/ELX Peroxide Feed Tank CLX Peroxide Feed Tank VOC Emission Cap for EPNs 120, 122, 102,116, 152, 153, 154, 14C, 131, 132, and 133 Polypropylene Waste Water Startup, and Shutdown Activities LOG Flare and Elevated Flare MSS Activities (7) C-Line Maintenance Shutdown E-Line Maintenance Shutdown Bullets Area Maintenance Shutdown Monomer Supplier Proving C-Line Compressor Maintenance D-Line Compressor Maintenance | Railcar Loading CLX PM PM10 PM25 Railcar Loading ELX VOC PM PM PM10 PM25 Railcar Loading ELX VOC PM PM PM10 PM25 DLX/ELX Peroxide Feed Tank VOC CLX Peroxide Feed Tank VOC VOC Emission Cap for EPNs 120, 122, 102,116, 152, 153, 154, 14C, 131, 132, and 133 VOC (10) Acetone Polypropylene Waste Water Polypropylene Waste Water VOC Startup, and Shutdown Activities LOG Flare and Elevated Flare MSS Activities (7) Ethylene Propylene NOx CO C-Line Maintenance Shutdown VOC Bullets Area Maintenance Shutdown Monomer Supplier Proving VOC C-Line Compressor Maintenance D-Line Compressor Maintenance VOC VOC VOC VOC VOC VOC VOC VO | PM2.5 |

| MSS48 | E-Line Compressor Maintenance | VOC | 0.01 | 0.01 |
|-------|---|-----|-------|------|
| MSS49 | C-Line Pump Maintenance | VOC | 0.06 | 0.01 |
| MSS50 | D-Line Pump Maintenance | VOC | 0.06 | 0.01 |
| MSS51 | E-Line Pump Maintenance | voc | 0.06 | 0.01 |
| MSS52 | Bullet Pump Maintenance | voc | 0.06 | 0.01 |
| MSS53 | C-Line Commercial Shutdown | voc | 15.48 | 0.06 |
| MSS54 | D-Line Commercial Shutdown | VOC | 15.48 | 0.06 |
| MSS55 | E-Line Commercial Shutdown | VOC | 26.22 | 0.10 |
| MSS56 | E-Line Gas Phase Reactor Cleaning | VOC | 11.04 | 0.14 |
| MSS57 | C-Line Filter Changes | VOC | 0.03 | 0.01 |
| MSS58 | D-Line Filter Changes | voc | 0.03 | 0.01 |
| MSS59 | E-Line Filter Changes | VOC | 0.03 | 0.01 |
| MSS60 | C/D/E Instrument Maintenance (repair/replace) | VOC | 0.01 | 0.01 |

- (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
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - 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
- (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) The allowable emission rates for individual VOC species from this EPN are included in the total VOC emission rates.
- (7) Emission rates shown are combined totals for EPN 30 and EPN 34.
- (8) The combined total VOC emissions for all EPNs with this note shall not exceed the emission rates indicated for EPN E-CAP.
- (9) The combined annual allowable emission limits for these EPNs are specified on Page 1.
- (10) These emission rates will be in effect until the completion of the C-Line and D-Line upgrade. After that time, all emission values denoted with "(10)" will no longer be authorized
- (11) These emission rates will be in effect upon completion of the C-Line and D-Line upgrade.
- (12) The DLX Cooling Tower (EPN 155) will be authorized by PBR prior to the completion of the C-Line and D-Line upgrade.

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|----------------|------|-----|------|
| Page | | | |

| Emiccion | Courocc | Maximum | Allowoblo | Emiccion | Datas |
|----------|-----------|------------|-----------|----------|-------|
| Emission | Sources - | ıvıaxımını | Allowable | Emission | Raies |

Date:

October 20, 2020