

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 107518 and PSDTX1383M2

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) |
| All Furnace EPNs (OL3- FUR1 through OL3-FUR14) | Pyrolysis Furnace Annual CAP | NO _x | (6) | 167.28 |
| | | CO | (6) | 472.16 |
| | | VOC | (6) | 165.84 |
| | | PM | (6) | 33.73 |
| | | PM ₁₀ | (6) | 33.73 |
| | | PM _{2.5} | (6) | 33.73 |
| | | NH ₃ | (6) | 60.18 |
| | | SO ₂ | (6) | 13.79 |
| OL3-FUR1 | Pyrolysis Furnace 1 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR2 | Pyrolysis Furnace 2 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |

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| | | | | |
|------------------------------------|---------------------|--------------------------------------|-------|-----|
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR3 | Pyrolysis Furnace 3 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR4 | Pyrolysis Furnace 4 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR5 | Pyrolysis Furnace 5 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| Project Number: 336053 OL3-FUR6 | Pyrolysis Furnace 6 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |

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| | | | | |
|----------|---------------------|--------------------------------------|-------|-----|
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR7 | Pyrolysis Furnace 7 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR8 | Pyrolysis Furnace 8 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR9 | Pyrolysis Furnace 9 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | | | |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|-------------------------------------|----------------------|--------------------------------------|-------|-----|
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR10 | Pyrolysis Furnace 10 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR11 | Pyrolysis Furnace 11 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR12 | Pyrolysis Furnace 12 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| Project Number: 336053 OL3-FUR13 | Pyrolysis Furnace 13 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | | | |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|---|-------------------------|--------------------------------------|-------|--------|
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| OL3-FUR14 | Pyrolysis Furnace 14 | NO _x | 5.50 | (6) |
| | | NO _x (startup & shutdown) | 15.00 | (6) |
| | | CO | 7.70 | (6) |
| | | CO (startup & shutdown) | 21.00 | (6) |
| | | VOC | 2.70 | (6) |
| | | PM | 0.55 | (6) |
| | | PM ₁₀ | 0.55 | (6) |
| | | PM _{2.5} | 0.55 | (6) |
| | | NH ₃ | 1.47 | (6) |
| | | SO ₂ | 0.22 | (6) |
| All Steam Boiler EPNs (OL3-BOIL1 through OL3-BOIL4) | Steam Boiler Annual CAP | NO _x | (8) | 75.51 |
| | | CO | (8) | 279.39 |
| | | VOC | (8) | 64.79 |
| | | PM | (8) | 18.88 |
| | | PM ₁₀ | (8) | 18.88 |
| | | PM _{2.5} | (8) | 18.88 |
| | | NH ₃ | (8) | 36.76 |
| | | SO ₂ | (8) | 75.14 |
| OL3-BOIL1 Project Number: 336053 | Steam Boiler 1 | NO _x | 6.47 | (8) |
| | | NO _x (startup & shutdown) | 43.10 | (8) |
| | | CO | 15.95 | (8) |
| | | VOC | 3.70 | (8) |
| | | PM | 1.08 | (8) |
| | | PM ₁₀ | 1.08 | (8) |
| | | PM _{2.5} | 1.08 | (8) |
| | | NH ₃ | 3.15 | (8) |
| | | SO ₂ | 4.29 | (8) |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|------------------------------------|-------------------------------|--------------------------------------|--------|-------|
| | | NO _x (startup & shutdown) | 43.10 | (8) |
| | | CO | 15.95 | (8) |
| | | VOC | 3.70 | (8) |
| | | PM | 1.08 | (8) |
| | | PM ₁₀ | 1.08 | (8) |
| | | PM _{2.5} | 1.08 | (8) |
| | | NH ₃ | 3.15 | (8) |
| | | SO ₂ | 4.29 | (8) |
| OL3-BOIL3 | Steam Boiler 3 | NO _x | 6.47 | (8) |
| | | NO _x (startup & shutdown) | 43.10 | (8) |
| | | CO | 15.95 | (8) |
| | | VOC | 3.70 | (8) |
| | | PM | 1.08 | (8) |
| | | PM ₁₀ | 1.08 | (8) |
| | | PM _{2.5} | 1.08 | (8) |
| | | NH ₃ | 3.15 | (8) |
| | | SO ₂ | 4.29 | (8) |
| OL3-BOIL4 | Steam Boiler 4 | NO _x | 6.47 | (8) |
| | | NO _x (startup & shutdown) | 43.10 | (8) |
| | | CO | 15.95 | (8) |
| | | VOC | 3.70 | (8) |
| | | PM | 1.08 | (8) |
| | | PM ₁₀ | 1.08 | (8) |
| | | PM _{2.5} | 1.08 | (8) |
| | | NH ₃ | 3.15 | (8) |
| | | SO ₂ | 4.29 | (8) |
| OL3-DK1, OL3-DK2 | Decoking Drums 1 and 2 (7) | VOC | <0.01 | <0.01 |
| | | CO | 196.07 | 68.66 |
| | | PM | 0.52 | 0.18 |
| | | PM ₁₀ | 0.29 | 0.10 |
| | | PM _{2.5} | 0.25 | 0.09 |
| OL3-CTWR Project Number: 336053 | Olefins 3 Cooling Tower | VOC | 5.75 | 25.21 |
| | | Chlorine Compounds | <0.01 | <0.01 |
| | | PM | 7.48 | 20.92 |

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| | | | | |
|------------------------------------|--|--------------------|--------|--------|
| | | PM _{2.5} | 0.01 | 0.04 |
| PDH-CTWR | PDH Unit Cooling Tower | VOC | 3.75 | 16.44 |
| | | Chlorine Compounds | <0.01 | <0.01 |
| | | PM | 4.88 | 13.64 |
| | | PM ₁₀ | 1.15 | 5.04 |
| | | PM _{2.5} | 0.01 | 0.03 |
| OL3-FUG | Olefins 3 Fugitives | VOC | 124.14 | 543.75 |
| | | Cl ₂ | <0.01 | 0.02 |
| | | NH ₃ | 0.24 | 1.04 |
| All VCU EPNs (OL3-VCU1 & OL3-VCU2) | Olefins 3 VCU 1 & 2 Annual CAP | VOC | (9) | 3.21 |
| | | NO _x | (9) | 31.32 |
| | | CO | (9) | 69.99 |
| | | PM | (9) | 0.88 |
| | | PM ₁₀ | (9) | 0.88 |
| | | PM _{2.5} | (9) | 0.88 |
| | | SO ₂ | (9) | 0.09 |
| OL3-VCU1 | Olefins 3 VCU 1 | VOC | 0.97 | (9) |
| | | NO _x | 3.80 | (9) |
| | | CO | 10.98 | (9) |
| | | PM | 0.10 | (9) |
| | | PM ₁₀ | 0.10 | (9) |
| | | PM _{2.5} | 0.10 | (9) |
| | | SO ₂ | 0.01 | (9) |
| OL3-VCU2 | Olefins 3 VCU 2 | VOC | 0.97 | (9) |
| | | NO _x | 3.80 | (9) |
| | | CO | 10.98 | (9) |
| | | PM | 0.10 | (9) |
| | | PM ₁₀ | 0.10 | (9) |
| | | PM _{2.5} | 0.10 | (9) |
| | | SO ₂ | 0.01 | (9) |
| OL3-MAPD | MAPD Regeneration Vent | VOC | 0.21 | <0.01 |
| | | CO | 11.55 | 0.05 |
| Project Number: 336053 OL3-GEN | OL3 Unit Diesel Emergency Generator Engine | NO _x | 11.69 | 0.58 |
| | | CO | 6.33 | 0.32 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|------------------------------------|--|--------------------------------------|-------|--------|
| | | PM | 0.37 | 0.02 |
| | | PM ₁₀ | 0.37 | 0.02 |
| | | PM _{2.5} | 0.37 | 0.02 |
| | | SO ₂ | 0.01 | <0.01 |
| PDH-RXNHTR | PDH Reactor Charge Heater | NO _x | 4.50 | 13.14 |
| | | NO _x (startup & shutdown) | 20.25 | |
| | | CO | 12.67 | 54.24 |
| | | VOC | 2.57 | 11.28 |
| | | PM | 1.55 | 6.79 |
| | | PM ₁₀ | 1.55 | 6.79 |
| | | PM _{2.5} | 1.55 | 6.79 |
| | | NH ₃ | 2.01 | 5.86 |
| | | SO ₂ | 2.99 | 13.08 |
| PDH-WHBLR | PDH Waste Heat Boiler (and Air Heater) | NO _x | 30.59 | 74.45 |
| | | NO _x (startup & shutdown) | 76.49 | |
| | | CO | 55.63 | 148.89 |
| | | VOC | 13.25 | 58.02 |
| | | PM | 3.15 | 13.79 |
| | | PM ₁₀ | 3.15 | 13.79 |
| | | PM _{2.5} | 3.15 | 13.79 |
| | | NH ₃ | 7.18 | 20.96 |
| | | SO ₂ | 2.00 | 8.76 |
| PDH-FUG | PDH Unit Fugitives (5) | VOC | 17.59 | 77.06 |
| | | Cl ₂ | <0.01 | 0.02 |
| | | NH ₃ | 0.05 | 0.21 |
| PDH-GEN | PDH Unit Diesel Emergency Generator Engine | NO _x | 11.64 | 0.58 |
| | | CO | 6.31 | 0.32 |
| | | VOC | 11.64 | 0.58 |
| | | PM | 0.36 | 0.02 |
| | | PM ₁₀ | 0.36 | 0.02 |
| | | PM _{2.5} | 0.36 | 0.02 |
| | | SO ₂ | 0.01 | <0.01 |
| Project Number: 336053 OL3-ACID | Sulfuric Acid Tank | H ₂ SO ₄ | 1.27 | 0.03 |
| OL3-PLO | PGC Lube Oil Reservoir | VOC | 0.91 | <0.01 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|--|---|---|--------|-------|
| OL3-BRLO | BRC Lube Oil Reservoir | VOC | 0.47 | <0.01 |
| OL3-Chem1 | Amine Storage Tank | VOC | 0.79 | <0.01 |
| OL3-Chem2 | Amine Storage Tank | VOC | 0.79 | <0.01 |
| OL3-Chem3 | Inhibitor Storage Tank | VOC | 7.36 | 0.06 |
| OL3-Chem4 | Inhibitor Storage Tank | VOC | 7.36 | 0.06 |
| OL3-Chem5 | Amine Storage Tank | VOC | 0.79 | 0.01 |
| OL3-Chem6 | OL3 BFW Amine Tank | VOC | 2.08 | 0.01 |
| OL3-Chem7 | Package Boilers BFW Amine Tank | VOC | 0.71 | 0.01 |
| OL3-DIES | OL3 Emergency Generator Diesel Storage Tank | VOC | 0.10 | <0.01 |
| OL3-ACID2 | Zimpro Acid Day Tank | H ₂ SO ₄ | 4.30 | 0.04 |
| PDH-PLO | PGC Lube Oil Reservoir | VOC | 0.02 | <0.01 |
| PDH-PRLO | PRC Lube Oil Reservoir | VOC | 0.02 | <0.01 |
| PDH-ACID | Sulfuric Acid Tank | H ₂ SO ₄ | 1.02 | <0.01 |
| PDH-ERLO | ERC Lube Oil Reservoir | VOC | 0.02 | <0.01 |
| PDH-Chem1 | Amine Storage Tank | VOC | 0.49 | <0.01 |
| PDH-Chem2 | Inhibitor Storage Tank | VOC | 4.48 | 0.06 |
| PDH-Chem3 | Inhibitor Storage Tank | VOC | 4.48 | 0.06 |
| PDH-Chem4 | Inhibitor Storage Tank | VOC | 3.72 | 0.05 |
| PDH-Chem5 | Product Inhibitor Storage Tank | VOC | 3.72 | 0.05 |
| PDH-DIES | Diesel Storage Tank | VOC | 0.21 | <0.01 |
| PDH-RALO1 | RAC 1 Lube Oil Reservoir | VOC | 0.02 | <0.01 |
| PDH-RALO2 | RAC 2 Lube Oil Reservoir | VOC | 0.02 | <0.01 |
| PDH-TRK | PDH Truck Loading Fugitives | VOC | 0.06 | <0.01 |
| PDH-MSSVO | PDH Maintenance Fugitives | VOC-MSS | 68.69 | 1.82 |
| | | Inorganics – MSS | 0.16 | <0.01 |
| OL3-MSSVO | MSS - Vessel Opening | VOC-MSS | 214.73 | 6.99 |
| | | Inorganics – MSS | 1.90 | <0.01 |
| 1018, 1067, OL3-FLRA, OL3-FLRB, OL3-FLRC, EGF-1, EGF-2, EGF-3, EGF-4 Project Number: 336053 | Routine Waste Gas Flaring Hourly Cap (10) | VOC | 34.08 | - |
| | | NO _x (Elevated Flare option) | 79.45 | - |
| | | CO (Elevated Flare option) | 409.00 | - |
| | | SO ₂ (Elevated Flare option) | 0.01 | - |
| | | NO _x (EGF option) | 75.00 | - |
| | | CO (EGF option) | 641.05 | - |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|--|---|---|----------|---------|
| 1018, 1067, OL3-FLRA, OL3-FLRB, OL3-FLRC, EGF-1, EGF-2, EGF-3, EGF-4 | MSS Waste Gas Flaring Hourly Cap (10) | VOC (Elevated Flare option) | 5,057.15 | - |
| | | VOC (EGF option) | 5372.0 | - |
| | | NO _x (Elevated Flare option) | 1,615.32 | - |
| | | CO (Elevated Flare option) | 8,321.30 | - |
| | | NO _x (EGF option) | 3,482.4 | - |
| | | CO (EGF option) | 13,869.0 | - |
| FLARECAP | Elevated and Enclosed Ground Flares Annual Cap (11) | CO | - | 2162.07 |
| | | NO _x | - | 267.89 |
| | | SO ₂ | - | 3.01 |
| | | VOC | - | 95.14 |
| FLARECAP | Elevated and Enclosed Ground Flares MSS Annual Cap (11) | VOC | - | 321.37 |
| | | NO _x | - | 145.31 |
| | | CO | - | 578.70 |

- (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
- H₂SO₄ - sulfuric acid mist
- Cl₂ - chlorine
- NH₃ - ammonia
- Chlorine Compounds - includes hypochlorous and hydrochloric acids
- (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) Annual emissions included in annual compliance CAP for pyrolysis furnaces (EPNs OL3- FUR1 through OL3-FUR14).
- (7) Maximum emissions from decoking all furnaces to either decoke drum (EPN OL3-DK1 or OL3-DK2).
- (8) Annual emissions included in annual compliance CAP for steam boilers (EPNs OL3-BOIL1 through OL3-BOIL4).
- (9) Annual emissions included in annual compliance CAP for VCUs (EPNs OL3-VCU1 & OL3-VCU2).
- (10) Maximum hourly emission rate for waste gas flaring may occur from any combination of EPNs.

- (11) Emissions in the cap are authorized to be emitted from any combination of the following flare EPNs: 1018, 1067, OL3-FLRA/B/C, EGF-1, EGF-2, EGF-3, and EGF-4.

Emission Sources - Maximum Allowable Emission Rates

Date: _____ TBD

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Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX48M1

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates |
|--|--|--------------------------|----------------|
| | | | TPY (4) |
| GHGFLARECAP | Elevated and Enclosed Ground Flares GHG Annual Cap (6) | CO ₂ (5) | 661,230.60 |
| | | CH ₄ (5) | 715.40 |
| | | N ₂ O (5) | 4.39 |
| | | CO ₂ e | 681,822.90 |
| OL3-FUR1 OL3-FUR2 OL3-FUR3 OL3-FUR4 OL3-FUR5 OL3-FUR6 OL3-FUR7 OL3-FUR8 OL3-FUR9 OL3-FUR10 OL3-FUR11 OL3-FUR12 OL3-FUR13 OL3-FUR14 | Pyrolysis Cracking Furnaces | CO ₂ (5) | 1,553,673.00 |
| | | CH ₄ (5) | 82.10 |
| | | N ₂ O (5) | 15.46 |
| | | CO ₂ e | 1,560,331.00 |
| OL3-BOIL1 OL3-BOIL2 OL3-BOIL3 OL3-BOIL4 | Steam Boilers | CO ₂ (5) | 695,769.00 |
| | | CH ₄ (5) | 40.44 |
| | | N ₂ O (5) | 7.61 |
| | | CO ₂ e | 699,048.00 |
| OL3-VCU1 | Olefins 3 VCU 1 | CO ₂ (5) | 13,159.00 |
| | | CH ₄ (5) | 9.86 |
| | | N ₂ O (5) | 0.08 |
| | | CO ₂ e | 13,429.00 |
| OL3-VCU2 | Olefins 3 VCU 2 | CO ₂ (5) | 13,159.00 |
| | | CH ₄ (5) | 9.86 |
| | | N ₂ O (5) | 0.08 |
| | | CO ₂ e | 13,429.00 |
| OL3-DK1 OL3-DK2 | Decoking drum | CO ₂ (5) | 329.00 |
| | | CO ₂ e | 329.00 |
| OL3-GEN | Emergency generator engine | CO ₂ (5) | 592.00 |
| | | CO ₂ e | 592.00 |
| PDH-GEN | Emergency generator engine | CO ₂ (5) | 592.00 |
| | | CO ₂ e | 592.00 |

Emission Sources - Maximum Allowable Emission Rates

| | | | |
|------------|----------------------------------|----------------------|------------|
| PDH-RXNHTR | Reactor charge heater | CO ₂ (5) | 133,684.00 |
| | | CH ₄ (5) | 8.43 |
| | | N ₂ O (5) | 1.61 |
| | | CO ₂ e | 13,4376.00 |
| PDH-WHBLR | Air heater and waste heat boiler | CO ₂ (5) | 495,571.00 |
| | | CH ₄ (5) | 643.00 |
| | | CO ₂ e | 511,636.00 |

- (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) CO₂ - carbon dioxide
N₂O - nitrous oxide
CH₄ - methane
HFCs - hydrofluorocarbons
PFCs - perfluorocarbons
SF₆ - sulfur hexafluoride
CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.
- (6) Emissions in the cap are authorized to be emitted from any combination of the following flare EPNs: 1018, 1067, OL3-FLRA/B/C, EGF-1, EGF-2, EGF-3, and EGF-4.

Date: _____ TBD