

Emission Sources - Maximum Allowable Emission Rates

Permit Number 150465

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) |
| FLARE-1 | Flare-1 (Pilot Gas and Truck Venting) | NO _x | 2.79 | 1.99 |
| | | CO | 5.87 | 5.35 |
| | | SO ₂ | 0.01 | 0.05 |
| | | VOC | 20.44 | 13.37 |
| | | H ₂ S | 0.01 | 0.01 |
| FLARE-2 | Flare 2 Pilot Gas | NO _x | 0.11 | 0.49 |
| | | CO | 0.22 | 0.97 |
| | | SO ₂ | 0.01 | 0.05 |
| | | VOC | 0.01 | 0.01 |
| | | H ₂ S | 0.01 | 0.01 |
| H-101 | Regen Gas Heater | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | NO _x | 0.17 | 0.76 |
| | | CO | 0.35 | 1.53 |
| | | SO ₂ | <0.01 | 0.02 |
| | | VOC | <0.01 | <0.01 |
| H-102 | Heat Medium Heater | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | NO _x | 0.42 | 1.85 |
| | | CO | 0.84 | 3.70 |
| | | SO ₂ | 0.01 | 0.04 |
| | | VOC | <0.01 | <0.01 |
| H-103 | Amine Regen Hot Oil Heater 1 | PM | 0.29 | 1.27 |

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| | | | | |
|-------|-----------------------------------|-------------------|-------|-------|
| | | PM ₁₀ | 0.29 | 1.27 |
| | | PM _{2.5} | 0.29 | 1.27 |
| | | NO _x | 1.26 | 5.52 |
| | | CO | 2.59 | 11.34 |
| | | SO ₂ | 0.02 | 0.09 |
| | | VOC | 0.21 | 0.92 |
| H-104 | Amine Regen Hot Oil Heater 2 | PM | 0.32 | 1.40 |
| | | PM ₁₀ | 0.32 | 1.40 |
| | | PM _{2.5} | 0.32 | 1.40 |
| | | NO _x | 1.39 | 6.08 |
| | | CO | 2.85 | 12.48 |
| | | SO ₂ | 0.02 | 0.10 |
| | | VOC | 0.23 | 1.01 |
| H-105 | Glycol Dehydrator Heater | PM | 0.03 | 0.15 |
| | | PM ₁₀ | 0.03 | 0.15 |
| | | PM _{2.5} | 0.03 | 0.15 |
| | | NO _x | 0.14 | 0.63 |
| | | CO | 0.37 | 1.61 |
| | | SO ₂ | <0.01 | 0.01 |
| | | VOC | 0.02 | 0.11 |
| H-106 | Amine Heater | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | NO _x | 0.16 | 0.72 |
| | | CO | 0.33 | 1.44 |
| | | SO ₂ | <0.01 | 0.02 |
| | | VOC | <0.01 | <0.01 |
| FUG-1 | Fugitives (5) | VOC | 5.33 | 23.36 |
| | | H ₂ S | 0.25 | 1.10 |
| FUG-2 | Pressurized Loading Fugitives (5) | VOC | 1.76 | 2.31 |

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| | | | | |
|------------|------------------------------------|-------------------|-------|-------|
| EG-1 | Generac - SG230 | PM | 0.05 | <0.01 |
| | | PM ₁₀ | 0.05 | <0.01 |
| | | PM _{2.5} | 0.05 | <0.01 |
| | | NO _x | 0.02 | <0.01 |
| | | CO | 0.43 | 0.02 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.31 | 0.02 |
| EG-2 | Generac - SG400 | PM | 0.09 | <0.01 |
| | | PM ₁₀ | 0.09 | <0.01 |
| | | PM _{2.5} | 0.09 | <0.01 |
| | | NO _x | 0.12 | 0.01 |
| | | CO | 0.72 | 0.04 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.16 | 0.01 |
| TK-1801 | Used Lube Oil Tank | VOC | <0.01 | <0.01 |
| TK-1802 | New Lube Oil Storage Tank | VOC | <0.01 | <0.01 |
| TK-1803 | Open Drain Storage Tank (PW) | VOC | <0.01 | <0.01 |
| TK-1805A/B | Produced Water Tanks | VOC | 0.32 | 1.62 |
| TK-1812 | Lube Oil Drain Sump | VOC | <0.01 | <0.01 |
| TK-1813 | Open Drain Sump | VOC | <0.01 | <0.01 |
| TK-1814 | AGI Well Open Drain Sump | VOC | <0.01 | <0.01 |
| TK-2801 | Lean Amine Storage Tank | VOC | <0.01 | <0.01 |
| TK-2802 | Lean Amine Storage Tank | VOC | <0.01 | <0.01 |
| TK-2803 | Deionized Water | VOC | <0.01 | <0.01 |
| TK-3801 | New TEG Storage Tank | VOC | <0.01 | <0.01 |
| TK-4801 | Lube Oil Supply – Methanol | VOC | <0.01 | <0.01 |
| TK-4802 | Lube Oil Supply – Refrigeration | VOC | <0.01 | <0.01 |
| TK-4803 | Lube Oil Supply – Screw Compressor | VOC | <0.01 | <0.01 |
| TK-4804 | Lube Oil Supply – AGI Compressor | VOC | <0.01 | <0.01 |
| TK-4901 | Methanol Supply Tank | VOC | 2.84 | 0.02 |

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|---------|---------------------------------------|-------------------|-----------|--------|
| TK-4902 | AGI Well – Methanol Supply Tank | VOC | 1.42 | 0.02 |
| TK-8100 | Lube Oil Supply – VRU | VOC | <0.01 | <0.01 |
| L-1 | Produced Water Loading | VOC | 0.62 | 0.12 |
| | | H ₂ S | 0.01 | 0.01 |
| MSS-FUG | MSS Fugitives – Routine WC1 | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | VOC | 213.04 | 8.68 |
| FLARE-1 | MSS Flaring – Routine WC1 | NO _x | 20.61 | 2.19 |
| | | CO | 71.69 | 6.34 |
| | | SO ₂ | 51.55 | 3.91 |
| | | VOC | 119.88 | 15.52 |
| | | H ₂ S | 0.72 | 0.05 |
| FLARE-1 | Flare 1 – AGI Downtime WC1 | NO _x | 371.67 | 17.98 |
| | | CO | 3,186.70 | 74.90 |
| | | SO ₂ | 11,776.45 | 108.46 |
| | | VOC | 133.22 | 15.98 |
| | | H ₂ S | 125.29 | 1.06 |
| FLARE-1 | Flare 1 - Purge Gas Startup | NO _x | 400.40 | 0.05 |
| | | CO | 3,433.09 | 0.43 |
| | | SO ₂ | 89.51 | 0.01 |
| | | VOC | 144.83 | 0.02 |
| | | H ₂ S | 0.95 | 0.01 |
| MSS-FUG | MSS Fugitives – Turnaround Blowdown | VOC | 398.00 | 0.20 |
| | | H ₂ S | <0.01 | <0.01 |
| MSS-FUG | MSS Fugitives – Turnaround Startup | VOC | 70.00 | 0.11 |
| | | H ₂ S | <0.01 | <0.01 |
| FLARE-1 | MSS Flaring – Turnaround Blowdown WC1 | NO _x | 86.47 | 0.04 |
| | | CO | 172.63 | 0.09 |
| | | SO ₂ | 0.22 | <0.01 |
| | | VOC | 441.43 | 0.22 |

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| | | | | |
|---------|---|-------------------|----------|-------|
| | | H ₂ S | 1.61 | <0.01 |
| FLARE-1 | MSS Flaring – Turnaround Startup WC1 | NO _x | 97.25 | 0.05 |
| | | CO | 194.17 | 0.10 |
| | | SO ₂ | 0.13 | <0.01 |
| | | VOC | 383.90 | 0.49 |
| | | H ₂ S | 1.06 | <0.01 |
| FLARE-1 | MSS Flaring - Inlet Gas WC1 (6) | NO _x | 456.13 | 10.26 |
| | | CO | 910.61 | 20.49 |
| | | SO ₂ | 131.52 | 2.96 |
| | | VOC | 27.84 | 0.63 |
| | | H ₂ S | 1.40 | 0.03 |
| FLARE-1 | MSS Flaring - Residue Gas WC1 (6) | NO _x | 498.51 | 2.24 |
| | | CO | 4,274.30 | 19.23 |
| | | SO ₂ | 9.85 | 0.04 |
| | | VOC | 169.21 | 0.76 |
| | | H ₂ S | 0.10 | 0.01 |
| FLARE-1 | MSS Flaring - Acid Gas WC1 (6) | NO _x | 39.98 | 0.08 |
| | | CO | 342.81 | 0.71 |
| | | SO ₂ | 3,635.54 | 18.18 |
| | | VOC | 0.53 | 0.01 |
| | | H ₂ S | 19.34 | 0.10 |
| FLARE-3 | Flare-3 Pilot Gas and Controlled Tank Truck Venting | NO _x | 1.42 | 2.88 |
| | | CO | 3.14 | 7.13 |
| | | SO ₂ | 0.02 | 0.06 |
| | | VOC | 10.23 | 20.02 |
| | | H ₂ S | 0.02 | 0.02 |
| EG-3 | Emergency Generator | PM | 0.44 | 0.02 |
| | | PM ₁₀ | 0.44 | 0.02 |
| | | PM _{2.5} | 0.44 | 0.02 |
| | | NO _x | 0.74 | 0.04 |
| | | CO | 3.85 | 0.19 |

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| | | | | |
|-----------|-------------------------------------|-------------------|-------|-------|
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.21 | 0.01 |
| H-3910 | Hot Oil Heater (Train C) | PM | 0.45 | 1.95 |
| | | PM ₁₀ | 0.45 | 1.95 |
| | | PM _{2.5} | 0.45 | 1.95 |
| | | NO _x | 1.76 | 7.70 |
| | | CO | 2.93 | 12.83 |
| | | SO ₂ | 0.04 | 0.16 |
| | | VOC | 0.32 | 1.41 |
| TK-C3901 | Amine Sump | VOC | 0.01 | 0.01 |
| TK-6970 | Used Oil Tank | VOC | 0.01 | 0.01 |
| TK-6971 | New Oil Tank | VOC | 0.01 | 0.01 |
| TK-6975 | Used Oil Tank | VOC | 0.01 | 0.01 |
| TK-3922 | Glycol Tank | VOC | 0.02 | 0.01 |
| TK-2909 | Lean Amine Tank | VOC | 0.01 | 0.01 |
| TK-2911 | Lean TEG Tank | VOC | 0.01 | 0.01 |
| TK-2902 | Open Drain Sump | VOC | 0.01 | 0.01 |
| TK-2912 | Deionized Water | VOC | 0.01 | 0.01 |
| TK-1805C | Produced Water | VOC | 0.16 | 0.81 |
| TK-1805D | Produced Water | VOC | 0.16 | 0.81 |
| FUG-3 | Fugitives (WC 2) (5) | VOC | 1.40 | 6.12 |
| | | H ₂ S | 0.11 | 0.47 |
| FUG-4 | Pressurized Truck Loading | VOC | 1.76 | 3.47 |
| L-2 | Produced Water Loading | VOC | 0.62 | 0.12 |
| | | H ₂ S | 0.01 | 0.01 |
| MSS-FUG-1 | MSS Fugitives - Routine WC2 | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| | | VOC | 16.63 | 0.70 |
| | | H ₂ S | 1.88 | 0.02 |
| FLARE-3 | MSS Flaring (Flare-3) - Routine WC2 | NO _x | 22.08 | 6.20 |

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| | | | | |
|-----------|-------------------------------------|------------------|-----------|-------|
| | | CO | 71.69 | 8.12 |
| | | SO ₂ | 17.38 | 0.25 |
| | | VOC | 33.22 | 40.68 |
| | | H ₂ S | 0.72 | 0.08 |
| FLARE-1 | Flare 1 – AGI Downtime WC2 | NO _x | 498.51 | 5.94 |
| | | CO | 4,274.30 | 0.36 |
| | | SO ₂ | 11,694.40 | 86.48 |
| | | VOC | 169.21 | 20.04 |
| | | H ₂ S | 124.41 | 1.89 |
| FLARE-3 | Flare 3 - Purge Gas Startup | NO _x | 400.40 | 0.05 |
| | | CO | 3,433.09 | 0.43 |
| | | SO ₂ | 89.51 | 0.01 |
| | | VOC | 144.83 | 0.02 |
| | | H ₂ S | 0.95 | 0.01 |
| FLARE-2 | MSS Flare - AGI Well Comp. BD WC2 | NO _x | 2.63 | 0.54 |
| | | CO | 21.79 | 1.40 |
| | | SO ₂ | 73.21 | 2.96 |
| | | VOC | 0.01 | 0.01 |
| | | H ₂ S | 0.77 | 0.03 |
| MSS-FUG-2 | MSS Fugitives - Turnaround Blowdown | VOC | 14.00 | 0.01 |
| | | H ₂ S | 0.03 | 0.01 |
| MSS-FUG-2 | MSS Fugitives Turnaround Startup | VOC | 23.00 | 0.11 |
| | | H ₂ S | 0.27 | 0.01 |
| FLARE-3 | MSS Flaring – Turnaround Blowdown | NO _x | 79.46 | 0.04 |
| | | CO | 158.62 | 0.08 |
| | | SO ₂ | 0.22 | 0.01 |
| | | VOC | 150.02 | 0.07 |
| | | H ₂ S | 1.05 | 0.01 |
| FLARE-3 | MSS Flaring – Turnaround Startup | NO _x | 48.04 | 0.06 |
| | | CO | 95.91 | 0.11 |
| | | SO ₂ | 0.08 | 0.01 |

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| | | | | |
|---------|-----------------------------------|-------------------|-----------|--------|
| | | VOC | 135.59 | 0.16 |
| | | H ₂ S | 0.55 | 0.01 |
| FLARE-3 | MSS Flaring - Inlet Gas WC2 (6) | NO _x | 502.84 | 11.31 |
| | | CO | 1,003.87 | 22.59 |
| | | SO ₂ | 175.3 | 3.94 |
| | | VOC | 27.87 | 0.63 |
| | | H ₂ S | 1.87 | 0.04 |
| | | | | |
| FLARE-3 | MSS Flaring - Residue Gas WC2 (6) | NO _x | 530.15 | 2.75 |
| | | CO | 4,545.55 | 23.55 |
| | | SO ₂ | 9.85 | 0.04 |
| | | VOC | 2.79 | 0.01 |
| | | H ₂ S | 0.10 | 0.01 |
| FLARE-3 | MSS Flaring - Acid Gas WC2 (6) | NO _x | 72.48 | 0.17 |
| | | CO | 621.45 | 1.45 |
| | | SO ₂ | 0.05 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| | | H ₂ S | 0.01 | 0.01 |
| FLARE-3 | Flare - 3 (AGI Well Downtime) | NO _x | 886.04 | 11.08 |
| | | CO | 7,587.32 | 44.50 |
| | | SO ₂ | 18,833.49 | 169.50 |
| | | VOC | 15.19 | 20.06 |
| | | H ₂ S | 308.07 | 2.77 |
| H-4711 | AGE Hot Oil | PM | 0.46 | 2.00 |
| | | PM ₁₀ | 0.46 | 2.00 |
| | | PM _{2.5} | 0.46 | 2.00 |
| | | NO _x | 1.80 | 7.88 |
| | | CO | 3.00 | 13.14 |
| | | SO ₂ | 0.33 | 0.17 |
| | | VOC | 0.04 | 1.45 |
| H-4701 | Regen Gas Heater | PM | 0.11 | 0.48 |
| | | PM ₁₀ | 0.11 | 0.48 |

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| | | | | |
|-----------|----------------------------|-------------------|------|-------|
| | | PM _{2.5} | 0.11 | 0.48 |
| | | NO _x | 0.43 | 1.88 |
| | | CO | 0.71 | 3.13 |
| | | SO ₂ | 0.08 | 0.04 |
| | | VOC | 0.01 | 0.34 |
| H-3920 | Hot Oil Heater (Train D) | PM | 0.45 | 1.95 |
| | | PM ₁₀ | 0.45 | 1.95 |
| | | PM _{2.5} | 0.45 | 1.95 |
| | | NO _x | 1.76 | 7.70 |
| | | CO | 2.93 | 12.83 |
| | | SO ₂ | 0.32 | 0.16 |
| | | VOC | 0.04 | 1.41 |
| H-1703 | Combined Heater | PM | 0.26 | 1.16 |
| | | PM ₁₀ | 0.26 | 1.16 |
| | | PM _{2.5} | 0.26 | 1.16 |
| | | NO _x | 1.05 | 4.58 |
| | | CO | 1.74 | 7.63 |
| | | SO ₂ | 0.02 | 0.10 |
| | | VOC | 0.19 | 0.84 |
| | | H ₂ S | 0.01 | 0.01 |
| TK – 4909 | Lean Amine Tank | VOC | 0.01 | 0.01 |
| TK-6801 | AGE Sump | VOC | 0.01 | 0.01 |
| TK-2901 | Lube Oil Drain Sump | VOC | 0.01 | 0.01 |
| TK-2903 | Used Lube Oil Tank | VOC | 0.01 | 0.01 |
| TK-2904 | New Lube Oil Tank | VOC | 0.01 | 0.01 |
| TK-2905 | Open Drain Storage Tank | VOC | 0.01 | 0.01 |
| TK-2906 | Regeneration Lube Oil Tank | VOC | 0.01 | 0.01 |
| TK-4910 | Demineralized Water Tank | VOC | 0.01 | 0.01 |
| TK-4911 | Methanol Supply Tank | VOC | 0.28 | 0.01 |
| TO | Thermal Oxidizer | PM | 0.05 | 0.23 |
| | | PM ₁₀ | 0.05 | 0.23 |

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| | | | | |
|---------|------------------------------------|-------------------|-----------|--------|
| | | PM _{2.5} | 0.05 | 0.23 |
| | | NO _x | 0.50 | 2.19 |
| | | CO | 0.43 | 1.88 |
| | | SO ₂ | 3.56 | 15.57 |
| | | VOC | 0.03 | 0.13 |
| | | H ₂ S | 0.01 | 0.01 |
| FLARE-1 | Flare-1 – AGI Downtime WC2 w/AGE | NO _x | 1.37 | 1.99 |
| | | CO | 11.10 | 5.35 |
| | | SO ₂ | 0.01 | 0.05 |
| | | VOC | 20.43 | 13.37 |
| | | H ₂ S | 0.01 | 0.01 |
| FLARE-2 | MSS Flare - AGI Well Comp. BD WC2 | NO _x | 2.63 | 0.54 |
| | | CO | 21.79 | 1.40 |
| | | SO ₂ | 147.43 | 2.99 |
| | | VOC | 0.01 | 0.01 |
| | | H ₂ S | 1.56 | 0.03 |
| FLARE-3 | Flare-3 (AGI Well Downtime w/ AGE) | NO _x | 506.63 | 9.18 |
| | | CO | 50.58 | 58.15 |
| | | SO ₂ | 21,898.99 | 197.14 |
| | | VOC | 12.90 | 20.05 |
| | | H ₂ S | 232.58 | 2.10 |

- (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
 - CO - carbon monoxide
 - 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
 - H₂S - hydrogen sulfide
- (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) Flaring emissions associated with the Find It Fix It initiative.

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Date: November 15, 2023