

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 53581 and PSDTX1029M2

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 (7) | |
|---------------------------|---|--------------------------------|--------------------|---------|
| | | | lbs/hour | TPY (4) |
| BAGHSMS | Meltshop Baghouse Stack FINs: EAF, LMS, Caster, LADLETO, TUNDDUMP, VTD, and Lime Bin 3 | PM (total) | 55.55 | 243.31 |
| | | PM (filterable) | 34.21 | 149.86 |
| | | PM ₁₀ (total) | 55.55 | 243.31 |
| | | PM ₁₀ (filterable) | 34.21 | 149.86 |
| | | PM _{2.5} (total) | 54.02 | 236.61 |
| | | PM _{2.5} (filterable) | 34.21 | 149.86 |
| | | NO _x | 283.77 | 673.50 |
| | | CO | 1124.43 | 1701.08 |
| | | SO ₂ | 555.21 | 1317.75 |
| | | VOC | 136.83 | 324.75 |
| | | Benzene | 1.32 | 5.10 |
| | | Pb | 0.03 | 0.15 |
| | | Fluoride | 0.009 | 0.021 |
| | | Sb | 0.0062 | 0.27 |
| | | As | 0.015 | 0.045 |
| | | Be | 0.0009 | 0.00115 |
| | | Cd | 0.051 | 0.109 |
| | | Cr | 0.26 | 0.88 |
| | | Cu | 0.23 | 0.77 |
| | | Mn | 1.28 | 5.00 |

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| | | | | |
|------------|---|-------------------|--------|--------|
| | | Hg | 0.40 | 1.08 |
| | | Ni | 0.026 | 0.101 |
| | | Se | 0.023 | 0.100 |
| | | Ag | 0.0092 | 0.0101 |
| | | Tl | 0.029 | 0.11 |
| | | V | 0.070 | 0.22 |
| | | Zn | 13.10 | 41.40 |
| CASTERVENT | West LMS/Caster Building Vents FINS; CASTERVENT, LADLEPREHT, TUNDPREHT, RLINEPREHT, TUNDDRY, TUNDNZLHT (5) | PM | 15.60 | 30.15 |
| | | PM ₁₀ | 12.08 | 23.50 |
| | | PM _{2.5} | 8.56 | 16.85 |
| | | NO _x | 12.25 | 32.22 |
| | | CO | 10.29 | 27.07 |
| | | SO ₂ | 0.07 | 0.19 |
| | | VOC | 10.29 | 27.00 |
| | | Pb | 0.02 | 0.03 |
| | | Fluoride | 0.0005 | 0.0011 |
| RUNOUTVENT | Billet Caster Runout Building Vents FINS: Caster, Torch (5) | PM | 6.55 | 11.53 |
| | | PM ₁₀ | 5.57 | 9.82 |
| | | PM _{2.5} | 3.30 | 5.84 |
| | | NO _x | 0.09 | 1.92 |
| | | CO | 0.079 | 1.62 |
| | | SO ₂ | 0.0006 | 0.012 |
| | | VOC | 0.005 | 0.121 |
| | | Pb | 0.0001 | 0.0001 |
| | | Fluoride | 0.009 | 0.023 |

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| | | | | |
|------------|--|-------------------|--------|--------|
| FINISHVENT | Rolling Mill and Billet Storage Building Vents (5) | PM | 56.64 | 142.58 |
| | | PM ₁₀ | 48.66 | 122.49 |
| | | PM _{2.5} | 19.20 | 48.34 |
| | | Pb | 0.0005 | 0.0013 |
| REHEATXI | TEXAS I Reheat Station Stack | PM | 1.35 | 5.91 |
| | | PM ₁₀ | 1.35 | 5.91 |
| | | PM _{2.5} | 1.35 | 5.91 |
| | | CO | 14.91 | 65.29 |
| | | NO _x | 16.29 | 71.35 |
| | | SO ₂ | 0.11 | 0.47 |
| | | VOC | 0.98 | 4.27 |
| REHEATXII | TEXAS II Reheat Station Stack | PM | 1.54 | 6.08 |
| | | PM ₁₀ | 1.54 | 6.08 |
| | | PM _{2.5} | 1.54 | 6.08 |
| | | CO | 10.35 | 40.82 |
| | | NO _x | 15.53 | 61.23 |
| | | SO ₂ | 0.12 | 0.48 |
| | | VOC | 1.12 | 4.40 |

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| | | | | |
|-----------|------------------------------------|-------------------|---------|---------|
| SLAGDUMP | Slag Pot Dump Pile (5) | PM | 0.48 | 1.42 |
| | | PM ₁₀ | 0.23 | 0.68 |
| | | PM _{2.5} | 0.03 | 0.10 |
| | | Pb | 0.00001 | 0.00004 |
| SLAGPROC | Slag/Mill Scale Processing (5) | PM | 1.50 | 1.10 |
| | | PM ₁₀ | 0.61 | 0.45 |
| | | PM _{2.5} | 0.08 | 0.06 |
| | | Pb | 0.00004 | 0.00003 |
| FUGLANCE | Outdoor Scrap Lancing (5) | PM | 2.03 | 2.14 |
| | | PM ₁₀ | 2.03 | 2.14 |
| | | PM _{2.5} | 2.03 | 2.14 |
| | | NO _x | 0.94 | 2.40 |
| | | CO | 0.79 | 2.02 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.05 | 0.13 |
| | | Pb | 0.00002 | 0.00002 |
| TEAROUT | Ladle Tearout and Tundish Dump (5) | PM | 1.09 | 0.40 |
| | | PM ₁₀ | 0.52 | 0.19 |
| | | PM _{2.5} | 0.08 | 0.03 |
| | | Pb | 0.00003 | 0.00001 |
| CLEANOUT | EAF Drop Out Box (5) | PM | 0.55 | 0.46 |
| | | PM ₁₀ | 0.26 | 0.02 |
| | | PM _{2.5} | 0.04 | 0.003 |
| | | Pb | 0.001 | 0.0001 |
| ALLOYDUMP | Alloy Dump To Larry Car (5) | PM | 0.08 | 0.02 |
| | | PM ₁₀ | 0.04 | 0.01 |

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| | | | | |
|------------|---|-------------------|----------|----------|
| | | PM _{2.5} | 0.006 | 0.002 |
| ALLOYBUNKR | Alloy Storage Bunkers (5) | PM | 0.05 | 0.16 |
| | | PM ₁₀ | 0.02 | 0.08 |
| | | PM _{2.5} | 0.003 | 0.008 |
| LIMEBIN1 | Lime Silo No. 1 Bin Vent | PM | 0.007 | 0.005 |
| | | PM ₁₀ | 0.007 | 0.005 |
| | | PM _{2.5} | 0.003 | <0.003 |
| LIMEBIN2 | Lime Silo No. 2 Bin Vent | PM | 0.007 | 0.008 |
| | | PM ₁₀ | 0.007 | 0.008 |
| | | PM _{2.5} | 0.003 | 0.004 |
| DOLOBIN1 | Dolomite Silo No. 1 Bin Vent | PM | 0.007 | 0.015 |
| | | PM ₁₀ | 0.007 | 0.015 |
| | | PM _{2.5} | 0.003 | 0.007 |
| CARBONBIN2 | Carbon Silo No. 2 and No. 4 to Common Bin Vent | PM | 0.003 | 0.004 |
| | | PM ₁₀ | 0.003 | 0.004 |
| | | PM _{2.5} | 0.001 | 0.002 |
| CARBONBIN | Carbon Silo and Carbon Bin 3 to Common Bin Vent | PM | 0.011 | 0.03 |
| | | PM ₁₀ | 0.011 | 0.03 |
| | | PM _{2.5} | 0.006 | 0.013 |
| SCALPITXI | Texas I Mill Scale Cleanout (5) | PM | 0.96 | 0.19 |
| | | PM ₁₀ | 0.45 | 0.09 |
| | | PM _{2.5} | 0.07 | 0.01 |
| | | Pb | <0.00001 | <0.00001 |
| SCALPITXII | Texas II Mill Scale Cleanout (5) | PM | 0.96 | 0.19 |
| | | PM ₁₀ | 0.45 | 0.09 |

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| | | | | |
|------------|-------------------------------------|-------------------|----------|----------|
| | | PM _{2.5} | 0.07 | 0.01 |
| | | Pb | <0.00001 | <0.00001 |
| SCALPITCST | Caster Mill Scale Cleanout (5) | PM | 0.96 | 0.19 |
| | | PM ₁₀ | 0.45 | 0.09 |
| | | PM _{2.5} | 0.07 | 0.01 |
| | | Pb | <0.00001 | <0.00001 |
| SCALPITRM | Roll Mill Scale Cleanout (5) | PM | 1.92 | 0.38 |
| | | PM ₁₀ | 0.91 | 0.18 |
| | | PM _{2.5} | 0.14 | 0.03 |
| | | Pb | <0.00002 | <0.00001 |
| CASTSPRAYW | Caster Spray Chamber Exhaust (West) | PM | 0.026 | 0.100 |
| | | PM ₁₀ | 0.019 | 0.075 |
| | | PM _{2.5} | 0.0001 | 0.0002 |
| | | Fluoride | 0.014 | 0.034 |
| CASTSPRAYE | Caster Spray Chamber Exhaust (East) | PM | 0.026 | 0.100 |
| | | PM ₁₀ | 0.019 | 0.075 |
| | | PM _{2.5} | 0.0001 | 0.0002 |
| | | Fluoride | 0.014 | 0.034 |
| CWTCCRMI | Texas I Contact Cooling Tower | PM | 0.088 | 0.384 |
| | | PM ₁₀ | 0.049 | 0.214 |
| | | PM _{2.5} | 0.0002 | 0.0008 |
| CWTNCRMI | Roll Mill Non-Contact Cooling Tower | PM | 0.050 | 0.218 |
| | | PM ₁₀ | 0.028 | 0.122 |
| | | PM _{2.5} | 0.0001 | 0.0005 |
| CWTCHILLER | Texas II Chiller Tower | PM | 0.016 | 0.068 |
| | | PM ₁₀ | 0.009 | 0.038 |

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| | | | | |
|------------|---------------------------------------|-------------------|---------|---------|
| | | PM _{2.5} | 0.00003 | 0.00014 |
| CWTNCMS | New Melt Shop Cooling Tower | PM | 0.563 | 2.466 |
| | | PM ₁₀ | 0.314 | 1.377 |
| | | PM _{2.5} | 0.001 | 0.005 |
| SCRAPSTGPR | Scrap Unloading Area Primary (5) | PM | 0.94 | 0.93 |
| | | PM ₁₀ | 0.45 | 0.46 |
| | | PM _{2.5} | 0.07 | 0.07 |
| | | Pb | 0.002 | 0.002 |
| SCRAPSTGN | Scrap and Tire Storage Area North (5) | PM | 2.89 | 6.27 |
| | | PM ₁₀ | 1.40 | 3.12 |
| | | PM _{2.5} | 0.23 | 0.08 |
| | | Pb | 0.005 | 0.012 |
| SCRAPSTGS | Scrap Storage Area South (5) | PM | 1.89 | 1.86 |
| | | PM ₁₀ | 0.90 | 0.91 |
| | | PM _{2.5} | 0.23 | 0.08 |
| | | Pb | 0.004 | 0.003 |
| SCRAPTRKE | Scrap Truck Dump Area (5) | PM | 0.19 | 0.71 |
| | | PM ₁₀ | 0.09 | 0.34 |
| | | PM _{2.5} | 0.02 | 0.08 |
| | | Pb | 0.0004 | 0.0013 |
| SCRAPSTGNW | Scrap Storage Area Northwest (5) | PM | 1.09 | 1.57 |
| | | PM ₁₀ | 0.52 | 0.78 |
| | | PM _{2.5} | 0.11 | 0.04 |
| | | Pb | 0.002 | 0.003 |
| LANDFILL | Non-Hazardous Landfill Area (5) | PM | 0.71 | 2.70 |

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| | | | | |
|------------|---|-------------------|--------|--------|
| | | PM ₁₀ | 0.35 | 1.35 |
| | | PM _{2.5} | 0.05 | 0.20 |
| CAMU | Corrective Action Management Unit (5) | PM | 0.64 | 2.38 |
| | | PM ₁₀ | 0.32 | 1.19 |
| | | PM _{2.5} | 0.05 | 0.18 |
| | | Pb | 0.01 | 0.04 |
| FUELLOCOD | Locomotive Fueling Station Diesel Tank | VOC | 0.002 | 0.003 |
| FUELSLAGD1 | Slag Fueling Station Diesel Tank # 1 | VOC | <0.001 | 0.001 |
| FUELSLAGD2 | Slag Fueling Station Diesel Tank # 2 | VOC | 0.006 | 0.006 |
| FUELSLAGG | Slag Fueling Station Gasoline Tank | VOC | 0.58 | 0.82 |
| FUELMSD | Melt Shop Fueling Station Diesel Tank | VOC | 0.003 | 0.004 |
| FUELMSG | Melt Shop Fueling Station Gasoline Tank | VOC | 0.86 | 0.67 |
| FUELLUBEG | Lube Fuel Station Gasoline Tank | VOC | 0.86 | 0.67 |
| FUELSCRAP | Scrap Vehicle Fueling Diesel Tank | VOC | 0.005 | 0.01 |
| FUELSHIP | Shipping Vehicle Fueling Diesel Tank | VOC | 0.005 | 0.005 |
| FUELPUMP | Cooling Water Emergency Pumps Fuel Tank | VOC | 0.005 | <0.001 |
| FUELBHD | Baghouse Fueling Station Diesel Tank | VOC | 0.003 | <0.001 |
| FUGEAF | EAF Building Fugitive Emissions (5) | PM | 9.78 | 23.21 |
| | | PM ₁₀ | 5.67 | 13.46 |
| | | PM _{2.5} | 5.06 | 12.00 |
| | | NO _x | 0.002 | 0.06 |
| | | CO | 0.14 | 0.34 |

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| | | | | |
|-----------|-----------------------------------|-------------------|---------|---------|
| | | SO ₂ | 0.003 | 0.007 |
| | | VOC | 0.003 | 0.008 |
| | | Pb | 0.01 | 0.024 |
| FUGLMS | LMS/Caster Building Fugitives (5) | PM | 8.61 | 20.44 |
| | | PM ₁₀ | 4.99 | 11.85 |
| | | PM _{2.5} | 4.45 | 10.57 |
| | | NO _x | 2.95 | 7.01 |
| | | CO | 2.17 | 5.16 |
| | | SO ₂ | 5.56 | 13.19 |
| | | VOC | 0.05 | 0.11 |
| | | Pb | 0.009 | 0.021 |
| PLASMA | Meltshop Cutting Emissions (5) | PM | 1.70 | 7.46 |
| | | PM ₁₀ | 1.70 | 7.46 |
| | | PM _{2.5} | 1.70 | 7.46 |
| | | NO _x | 0.007 | 0.03 |
| | | CO | 0.006 | 0.03 |
| | | SO ₂ | <0.0001 | <0.0002 |
| | | VOC | <0.0004 | 0.002 |
| | | Pb | 0.0001 | 0.0006 |
| BLAST | Abrasive Blasting (5) | PM | 2.75 | 12.03 |
| | | PM ₁₀ | 0.33 | 1.43 |
| | | PM _{2.5} | 0.05 | 0.21 |
| BLASTBILL | Round Billet Blasting (5) | PM | 4.28 | 18.74 |
| | | PM ₁₀ | 1.02 | 4.00 |
| | | PM _{2.5} | 0.15 | 0.67 |
| HWBLR1 | Heating Water Boiler # 1 | PM | 0.02 | 0.07 |
| | | PM ₁₀ | 0.02 | 0.07 |
| | | PM _{2.5} | 0.02 | 0.07 |
| | | NO _x | 0.22 | 0.96 |
| | | CO | 0.18 | 0.81 |
| | | SO ₂ | 0.001 | 0.006 |
| | | VOC | 0.01 | 0.05 |
| HWBLR2 | Heating Water Boiler # 2 | PM | 0.02 | 0.07 |
| | | PM ₁₀ | 0.02 | 0.07 |

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| | | | | |
|-----------|---|-------------------|----------|----------|
| | | PM _{2.5} | 0.02 | 0.07 |
| | | NO _x | 0.22 | 0.96 |
| | | CO | 0.18 | 0.81 |
| | | SO ₂ | 0.001 | 0.006 |
| | | VOC | 0.01 | 0.05 |
| CBLR1 | Domestic Boiler # 1 | PM | 0.003 | 0.013 |
| | | PM ₁₀ | 0.003 | 0.013 |
| | | PM _{2.5} | 0.003 | 0.013 |
| | | NO _x | 0.04 | 0.17 |
| | | CO | 0.03 | 0.14 |
| | | SO ₂ | <0.001 | 0.001 |
| | | VOC | 0.002 | <0.01 |
| CBLR2 | Domestic Boiler # 2 | PM | 0.003 | 0.013 |
| | | PM ₁₀ | 0.003 | 0.013 |
| | | PM _{2.5} | 0.003 | 0.013 |
| | | NO _x | 0.04 | 0.17 |
| | | CO | 0.03 | 0.14 |
| | | SO ₂ | <0.001 | 0.001 |
| | | VOC | 0.002 | <0.01 |
| SLAGPREHT | Slag Pot Preheater (5) | PM | 0.08 | 0.04 |
| | | PM ₁₀ | 0.08 | 0.04 |
| | | PM _{2.5} | 0.08 | 0.04 |
| | | NO _x | 0.98 | 0.49 |
| | | CO | 0.82 | 0.41 |
| | | SO ₂ | 0.006 | 0.003 |
| | | VOC | 0.05 | 0.03 |
| BULBCRSH | Bulb Crusher (5) | PM | <0.00001 | <0.00001 |
| | | PM ₁₀ | <0.00001 | <0.00001 |
| | | PM _{2.5} | <0.00001 | <0.00001 |
| EWP | Emergency Cooling Water Pump Engine (6) | PM | 1.36 | 0.07 |
| | | PM ₁₀ | 1.36 | 0.07 |
| | | PM _{2.5} | 1.36 | 0.07 |
| | | NO _x | 19.13 | 0.96 |
| | | CO | 4.12 | 0.21 |

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| | | | | |
|-----------|---------------------------------------|-------------------|-------|--------|
| | | SO ₂ | 1.27 | 0.06 |
| | | VOC | 1.52 | 0.08 |
| CWTTXIIRF | Texas II Reheat Furnace Cooling Tower | PM | 0.010 | 0.044 |
| | | PM ₁₀ | 0.006 | 0.024 |
| | | PM _{2.5} | 0.00 | 0.00 |
| FUELEAF | EAF Building Diesel Tank | VOC | 0.003 | <0.001 |
| ALL | All Sources | Any HAP | - | <10.00 |
| | | All HAPS | - | <25.00 |

- (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) 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
- Pb - lead
- Sb - antimony
- As - arsenic
- Be - beryllium
- Cd - cadmium
- Cr - chromium
- Cu - copper
- Mn - manganese
- Hg - mercury
- Ni - nickel
- Se - selenium
- Ag - silver
- Tl - thallium
- V - vanadium
- Zn - zinc
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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) Limited to 100 hours per year of non-emergency operation.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet the conditions of 30 TAC §116.119.

Emission Sources - Maximum Allowable Emission Rates

Date: October 2, 2013