

Emission Sources - Maximum Allowable Emission Rates

Permit Number 2489A

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 (6) | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|---------|
| | | | lbs/hour | TPY (4) |
| ST-B8 | Electric Arc Furnace-2 Baghouse Stack | CO | 24.85 | 39.76 |
| | | NO _x | 5.08 | 8.14 |
| | | PM | 0.86 | 2.26 |
| | | PM ₁₀ | 0.86 | 2.26 |
| | | PM _{2.5} | 0.86 | 2.26 |
| | | SO ₂ | 1.08 | 1.73 |
| | | VOC | 1.58 | 2.52 |
| ST-B24 | Electric Arc Furnace-3, Ladle Drying and Scrap Drying Baghouse Stack | CO | 8.63 | 24.81 |
| | | NO _x | 2.27 | 6.29 |
| | | PM | 0.26 | 1.08 |
| | | PM ₁₀ | 0.26 | 1.08 |
| | | PM _{2.5} | 0.26 | 1.08 |
| | | SO ₂ | 1.20 | 3.49 |
| | | VOC | 1.77 | 5.13 |
| BLDGFUG | Ladle Drying and Scrap Drying, AOD Preheater, Ladle Preheater, Ladle Preheater, Shell Core Making, Manual Core Making, South Foundry Building Fugitives | CO | 0.67 | 1.28 |
| | | NO _x | 0.70 | 1.51 |
| | | PM | 0.09 | 0.15 |
| | | PM ₁₀ | 0.09 | 0.15 |
| | | PM _{2.5} | 0.07 | 0.13 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.70 | 1.49 |

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| ST-B18 | Argon Oxygen Decarburization, AOD Preheater, Ladle Preheater, and Ladle and Scrap Drying Baghouse Stack | CO | 12.95 | 6.09 |
| | | NO _x | 5.95 | 3.57 |
| | | PM | 0.72 | 1.14 |
| | | PM ₁₀ | 0.72 | 1.14 |
| | | PM _{2.5} | 0.72 | 1.14 |
| | | SO ₂ | 1.12 | 0.45 |
| | | VOC | 1.67 | 0.72 |
| ST-B21 | Core and Mold Making, New Sand Silo 1, Return Sand Silo, New Sand Silo 2, Existing Sand Transporter Vent1, Reclaim Sand Silo, Reclaim Transporter Vent, Electric Tunnel Mold Dryer, Mixer Supply Hopper Assembly, Electric Sand Heaters, Articulating Sand Mold Mixer, Existing Sand Transporter Vent 2, Palmer 200 Core Sand Mixer, New Sand Surge Tank, Palmer 100 Core Sand Mixer, Palmer 300 Core Sand Mixer, Chromite Transporter Vent, and Iron Oxide Transporter Vent Baghouse Stack | PM | 0.26 | 0.85 |
| | | PM ₁₀ | 0.26 | 0.85 |
| | | PM _{2.5} | 0.26 | 0.85 |
| | | VOC | 0.82 | 1.95 |
| ST-B26 | Hard Face Welders, Grinding and Welding Tables, North Arc Wash Booth, North Torch Tables 1 and 2, Southeast Arc Wash Booth A, Southwest Arc Wash Booth B, Robotic Grinding, Torch Cutting Baghouse Stack | CO | <0.01 | <0.01 |
| | | NO _x | <0.01 | <0.01 |
| | | PM | 0.90 | 2.98 |
| | | PM ₁₀ | 0.90 | 2.98 |
| | | PM _{2.5} | 0.90 | 2.98 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.05 | 0.12 |
| ST-SCR2 | Cold Box Core Making Scrubber Stack | VOC | 0.23 | 1.55 |
| ST-B22 | Target Foundry (TF) Sand Molding, Mold Line Heaters, Sand Mold Drying, Return Sand Tank, Rotary Screen, Muller, | CO | 0.57 | 1.04 |
| | | NO _x | 0.61 | 1.24 |

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------|
| | | PM | 0.38 | 1.59 |
| | | PM ₁₀ | 0.38 | 1.59 |
| | | PM _{2.5} | 0.38 | 1.59 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 11.70 | 24.78 |
| ST-B23 | Target Foundry (TF) Sand Molding, Mold Line Heaters, Sand Mold Drying, Return Sand Bin and Tank, Rotary Screen, Muller, Hot Sand Elevators, Multi Cooler, Shake Out, Sand Return Conveyor, Punch Out, Sand Tank, Bentonite Bin and Tank, Sand Dryer and Reclaimer, and Pouring and Cooling Baghouse Stack | CO | 0.57 | 1.04 |
| | | NO _x | 0.61 | 1.24 |
| | | PM | 0.33 | 1.40 |
| | | PM ₁₀ | 0.33 | 1.40 |
| | | PM _{2.5} | 0.33 | 1.40 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 11.70 | 24.78 |
| ST-B22 and ST-B23 | Target Foundry (TF) Sand Molding, Mold Line Heaters, Sand Mold Drying, Return Sand Tank, Rotary Screen, Muller, Hot Sand Elevators, Multi Cooler, Shake Out, Sand Return Conveyor, Punch Out, Sand Tank, Bentonite Bin and Tank, Sand Dryer and Reclaimer, and Pouring and Cooling Baghouse Stack | CO | - | 1.04 |
| | | NO _x | - | 1.24 |
| | | SO ₂ | - | <0.01 |
| | | VOC | - | 24.78 |
| TFBLDGFUG | Target Foundry Building Fugitives (5) | PM | 0.07 | 0.18 |
| | | PM ₁₀ | 0.07 | 0.18 |
| | | PM _{2.5} | 0.06 | 0.13 |

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|----------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------|
| ST-B19 | Shot Blast Machine 7 and Grinding and Welding Operations Baghouse Stack | PM | 0.60 | 1.99 |
| | | PM ₁₀ | 0.60 | 1.99 |
| | | PM _{2.5} | 0.60 | 1.99 |
| | | VOC | <0.01 | 0.02 |
| ST-B25 | Pouring Hoods for Pouring Lines, Mold Cooling Hoods for Cooling Line, Primary Reclamation System, Flask Punchout Baghouse Stack | CO | 15.58 | 45.10 |
| | | NO _x | 0.02 | 0.04 |
| | | PM | 1.37 | 4.34 |
| | | PM ₁₀ | 1.37 | 4.34 |
| | | PM _{2.5} | 1.37 | 4.34 |
| | | SO ₂ | 4.34 | 7.10 |
| | | VOC | 12.23 | 35.39 |
| ST-B27_1 | Thermal Reclaim System Baghouse Stack | CO | 0.71 | 2.26 |
| | | NO _x | 1.08 | 3.41 |
| | | PM | 0.19 | 0.62 |
| | | PM ₁₀ | 0.19 | 0.62 |
| | | PM _{2.5} | 0.19 | 0.62 |
| | | SO ₂ | <0.01 | 0.02 |
| | | VOC | 0.05 | 0.16 |
| ST-B27_2 | Mechanical Reclaim System Baghouse Stack | PM | 0.12 | 0.38 |
| | | PM ₁₀ | 0.12 | 0.38 |
| | | PM _{2.5} | 0.12 | 0.38 |
| ST-B28 | Thermal Reclaim System Baghouse Stack | CO | 0.71 | 2.26 |
| | | NO _x | 1.08 | 3.41 |
| | | PM | 0.19 | 0.62 |
| | | PM ₁₀ | 0.19 | 0.62 |
| | | PM _{2.5} | 0.19 | 0.62 |

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| | | SO ₂ | 5.31 | 16.83 |
| | | VOC | 0.05 | 0.16 |
| | | | | |
| | | | | |
| AUSTFURN5 | Austenitizing Furnace 5 Stack | | | |
| | | PM | <0.01 | 0.01 |
| | | PM ₁₀ | <0.01 | 0.01 |
| | | PM _{2.5} | <0.01 | 0.01 |
| | | CO | 0.05 | 0.06 |
| | | NO _x | 0.13 | 0.17 |
| | | SO ₂ | <0.01 | <0.01 |
| AUSTFURN6 | Austenitizing Furnace 6 Stack | VOC | <0.01 | <0.01 |
| | | PM | <0.01 | 0.01 |
| | | PM ₁₀ | <0.01 | 0.01 |
| | | PM _{2.5} | <0.01 | 0.01 |
| | | CO | 0.05 | 0.06 |
| | | NO _x | 0.13 | 0.17 |
| | | SO ₂ | <0.01 | <0.01 |
| BTH-1 | Spray Paint Booth 1 Stack | VOC | <0.01 | <0.01 |
| | | PM | 0.01 | 0.02 |
| | | PM ₁₀ | 0.01 | 0.02 |
| BTH-2 | Spray Paint Booth 2 Stack | PM _{2.5} | 0.01 | 0.02 |
| | | VOC | 3.78 | 3.95 |
| | | PM | <0.01 | 0.02 |
| | | PM ₁₀ | <0.01 | 0.02 |
| | | PM _{2.5} | <0.01 | 0.02 |

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|----------------|----------------------------------------|-------------------|-------|-------|
| BTH-1 BTH-2 | Spray Paint Booth Stacks Annual Cap | VOC | 2.10 | 3.95 |
| | | PM | - | 0.02 |
| | | PM ₁₀ | - | 0.02 |
| | | PM _{2.5} | - | 0.02 |
| | | VOC | - | 3.95 |
| PBHTR1 | Paint Booth Heater 1 Stack | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | CO | 0.02 | 0.05 |
| | | NO _x | <0.01 | 0.02 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |
| PBHTR2 | Paint Booth Heater 2 Stack | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | CO | 0.02 | 0.05 |
| | | NO _x | <0.01 | 0.02 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |
| PBHTR3 | Paint Booth Heater 3 Stack | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | CO | 0.02 | 0.05 |
| | | NO _x | <0.01 | 0.02 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------|-------------|-------|
| BLDGFUG | Inspection Area Fugitives (5) | PM | 0.03 | <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 | | PM ₁₀ | 0.02 | <0.01 |
| NO _x - total oxides of nitrogen | | PM _{2.5} | 0.01 | <0.01 |
| SO ₂ - sulfur dioxide | | | | |
| PM - total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented | | VOC | 7.26 | 1.27 |
| PM ₁₀ - 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 | | VOC | 0.14 | <0.01 |
| CO - carbon monoxide | | | | |
| STGBLDGFUG | Aerosol Can Puncturing Station Carbon Filter (5) | | | |
| (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 (5) and permit application representations. | | PM | 0.08 | 0.27 |
| (6) Planned startup and shutdown emissions are included. Maintenance activities, except for those specified in Special Condition No. 30, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119. | | PM ₁₀ | 0.04 | 0.13 |
| | | PM _{2.5} | <0.01 | 0.02 |
| SP2 | Byproduct Storage Area Pile 2 (5) | PM | 0.02 | 0.07 |
| | | | Date: DRAFT | |
| | | PM ₁₀ | <0.01 | 0.03 |
| | | PM _{2.5} | <0.01 | <0.01 |
| ROADFUG | Road Fugitives (5) | PM | 2.03 | 2.84 |
| | Receive Driveway. Air-set | | | |
| | | PM ₁₀ | 0.44 | 0.66 |
| | | PM _{2.5} | 0.08 | 0.10 |