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 and Argon Oxygen Decarburization Baghouse Stack	CO	33.03	32.55
		NO_x	9.12	8.05
		PM	0.99	2.39
		PM_{10}	0.99	2.39
		$PM_{2.5}$	0.99	2.39
		SO_2	0.97	1.14
		VOC	1.41	1.66
ST-B24	Electric Arc Furnace-3, Ladle-4 Drying, and Scrap Drying Baghouse Stack	CO	8.63	24.81
		NO_x	2.27	6.29
		PM	0.29	1.14
		PM_{10}	0.29	1.14
		$PM_{2.5}$	0.29	1.14
		SO_2	1.20	3.49
		VOC	1.77	5.13
BLDGFUG	Shell Core Making, Manual Core Making, Core Drying, Air Set Mold Drying, Pouring and Cooling, and South Foundry Building Fugitives (5)	CO	0.23	0.42
		NO_x	0.15	0.50
		PM	0.04	0.07
		PM_{10}	0.04	0.07
		$PM_{2.5}$	0.02	0.05
		SO_2	<0.01	<0.01
		VOC	0.69	1.50

Emission Sources - Maximum Allowable Emission Rates

ST-CWBTH	Core Mold Wash Stack	PM	0.07	0.13
		PM_{10}	0.02	0.04
		$PM_{2.5}$	<0.004	<0.007
		VOC	6.15	11.44
ST-MWBTH1	Air Set Mold Wash Stack	PM	0.02	0.04
		PM_{10}	0.0061	0.01
		$PM_{2.5}$	0.001	<0.002
		VOC	1.76	3.27
ST-MWBTH2	South Foundry Green Sand (Pin Lift) Application Stack	PM	<0.01	0.02
		PM_{10}	0.003	0.006
		$PM_{2.5}$	<0.001	<0.001
		VOC	0.88	1.63
ST-B18	Sand Plant and Shakeout Baghouse Stack FINs (South Foundry [SF]), Pouring and Cooling, Hot Sand Elevator, SF New Sand Tank, SF Return Sand Tank, SF Rotary Screen, Shakeout, North Foundry (NF) Bentonite Bin, NF New Sand Bin, NF New Sand Tank, NF Reclaim Sand Bin, NF Return Sand Bin, NF Rotary Screen, and NF Return Sand Tank, EAF, AOD Vessel, Ladle and Scrap Drying, AOD Preheater, and Ladle Preheater)	CO	2.34	3.37
		NO_x	1.19	2.40
		PM	0.89	3.68
		PM_{10}	0.89	3.68
		$PM_{2.5}$	0.89	3.68
		SO_2	0.06	0.07
		VOC	0.12	0.20
ST-B21	South Foundry (SF) Hot Sand Elevator, SF Muller, Roberts New Sand Tank, System 1, 2, and 3, Core and Mold Making, Chromite Feeder, and Iron Oxide Feeder Baghouse Stack	PM	0.13	0.54
		PM_{10}	0.13	0.54
		$PM_{2.5}$	0.13	0.54
		VOC	22.75	25.47
BLDGFUG/ST-B18	Pouring, Cooling, and Shakeout	CO	37.29	43.19
		NO_x	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.01	0.02
		VOC	19.74	22.86
		Exempt Solvent	<0.01	<0.01
ST-SCR2	Cold Box Core Making Scrubber Stack	VOC	0.12	1.00
ST-B22	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	0.59	1.07
		NO_x	0.62	1.27
		PM	0.38	1.59
		PM_{10}	0.38	1.59
		$PM_{2.5}$	0.38	1.59
		SO_2	<0.004	<0.008
		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	0.59	1.07
		NO_x	0.62	1.27
		PM	0.33	1.40
		PM_{10}	0.33	1.40
		$PM_{2.5}$	0.33	1.40
		SO_2	<0.004	<0.008
		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	-	1.07
		NO_x	-	1.27
		SO_2	-	<0.008

Emission Sources - Maximum Allowable Emission Rates

		VOC	-	24.78
TFBLDGFUG	Target Foundry Building Fugitives (5)	PM	0.08	0.18
		PM_{10}	0.08	0.18
		$PM_{2.5}$	0.06	0.14
ST-B9	Torch Tables 1 and 2, Arc Wash South, Arc Wash North, and Casting Cleaning Baghouse Stack	CO	<0.002	0.006
		NO_x	<0.002	0.007
		PM	0.09	0.36
		PM_{10}	0.09	0.36
		$PM_{2.5}$	0.09	0.36
		SO_2	<0.001	<0.001
		VOC	<0.001	<0.001
ST-B11	Welding Operations Baghouse Stack	PM	0.14	0.49
		PM_{10}	0.14	0.49
		$PM_{2.5}$	0.14	0.49
ST-B19	Shot Blast Machine 7 and Grinding and Welding Operations FIT Area Baghouse Stack	PM	0.33	1.40
		PM_{10}	0.33	1.40
		$PM_{2.5}$	0.33	1.40
ST-B20	Grinding and Welding Operations Finishing Area Baghouse Stack	PM	0.16	0.66
		PM_{10}	0.16	0.66
		$PM_{2.5}$	0.16	0.66
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	0.001	0.001

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.007	0.009
AUSTFURN6	Austenitizing Furnace 6 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	0.001	0.001
		VOC	0.007	0.009
DRWFURN	Draw Furnace Stack	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
		CO	2.71	9.49
		NO_x	0.16	0.55
		SO_2	0.003	0.009
		VOC	0.02	0.08
BTH-1	Spray Paint Booth 1 Stack	PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.04
		VOC	3.78	9.00
BTH-2	Spray Paint Booth 2 Stack	PM	0.007	0.04
		PM_{10}	0.007	0.04
		$PM_{2.5}$	0.007	0.04

Emission Sources - Maximum Allowable Emission Rates

		VOC	3.18	9.00
BTH-1 BTH-2	Spray Paint Booth Stacks	PM	-	0.04
		PM_{10}	-	0.04
		$PM_{2.5}$	-	0.04
		VOC	-	9.00
PBHTR1	Paint Booth Heater 1 Stack	PM	0.002	0.003
		PM_{10}	0.002	0.003
		$PM_{2.5}$	0.002	0.003
		CO	0.02	0.04
		NO_x	0.01	0.02
		SO_2	≤0.001	<0.001
		VOC	≤0.002	≤0.003
PBHTR2	Paint Booth Heater 2 Stack	PM	0.002	0.003
		PM_{10}	0.002	0.003
		$PM_{2.5}$	0.002	0.003
		CO	0.02	0.04
		NO_x	0.01	0.02
		SO_2	<0.001	<0.001
		VOC	<0.002	<0.003
PBHTR3	Paint Booth Heater 3 Stack	PM	0.002	0.003
		PM_{10}	0.002	0.003
		$PM_{2.5}$	0.002	0.003
		CO	0.02	0.04
		NO_x	0.01	0.02
		SO_2	<0.001	<0.001
		VOC	<0.002	<0.003

Emission Sources - Maximum Allowable Emission Rates

BLDGFUG	Inspection Area Fugitives (5)	PM	0.04	0.02
		PM_{10}	0.03	0.02
		$PM_{2.5}$	0.02	0.02
		VOC	7.26	5.16
STGBLDGFUG	Aerosol Can Puncturing Station (5)	VOC	0.14	0.09
SP1	Byproduct Storage Area Pile 1 (5)	PM	0.08	0.27
		PM_{10}	0.04	0.13
		$PM_{2.5}$	<0.006	0.02
SP2	Byproduct Storage Area Pile2 (5)	PM	0.02	0.07
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.001	0.005
ROADFUG	Road Fugitives (5) Receive Driveway, Air-set Scrap and Sand Delivery, Sand Slag Road, Bulk Storage, and Shipping	PM	2.03	2.84
		PM_{10}	0.44	0.66
		$PM_{2.5}$	0.08	0.10

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
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
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) 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.

Date: January 11, 2019