Emission Sources - Maximum Allowable Emission Rates

Permit Number 2448 and PSDTX1560M1

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)
2A	Electric Arc Furnace Baghouse Stack	PM	28.71	120.98
		PM_{10}	25.26	106.46
		$PM_{2.5}$	24.98	105.25
		CO	524.00	1637.50
		NO_x	92.16	288.00
		SO_2	34.56	108.00
		VOC	35.20	99.15
		Pb	0.17	0.70
F-2	Electric Arc Furnace Building Fugitives	PM	2.18	6.81
		PM_{10}	1.26	3.95
		$PM_{2.5}$	0.94	2.93
		CO	1.44	4.51
		NO_x	0.25	0.79
		SO2	0.10	0.30
		VOC	0.01	0.03
		Pb	0.03	0.08
F-25	Continuous Casting (5)	PM	1.12	3.50
		PM_{10}	0.65	2.03
		$PM_{2.5}$	0.48	1.51
		VOC	0.32	1.00
14	Ladle Refining Furnace Baghouse Stack	PM	1.54	6.50
		PM_{10}	1.23	5.85
		$PM_{2.5}$	1.14	4.81
		CO	20.80	65.00
		NO_x	2.40	7.50

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		SO_2	22.85	71.40
		VOC	1.60	5.00
		Pb	0.0006	0.0024
F-27C	Ladle Preheater	PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		CO	1.01	4.42
		NO_x	1.20	5.26
		SO_2	0.01	0.03
		VOC	0.07	0.29
SCRAPFUG	Steel Scrap Fugitives (5)	PM	0.07	0.27
		PM_{10}	0.02	0.10
		$PM_{2.5}$	< 0.01	0.02
SCRAPYARD	Steel Scrap Pile Fugitives (5)	PM	-	0.18
		PM_{10}	-	0.09
		$PM_{2.5}$	-	0.01
MILLSCFUG	Mill Scale Fugitives (5)	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
MILLSCPILE	Mill Scale Pile Fugitives (5)	PM	–	0.83
		PM_{10}	–	0.42
		$PM_{2.5}$	–	0.06
29	Stores Gasoline Tank 1,000 Gallon Capacity	VOC	0.01	0.04
31	Stores Gasoline Tank Loading facility	VOC	0.02	0.10
2	Reheat Furnace 2	PM	1.01	3.26
		PM_{10}	1.01	3.26
		$PM_{2.5}$	1.01	3.26
		CO	11.21	36.02
		NO_x	11.84	30.62
		SO_2	0.08	0.26

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		VOC	0.73	2.36
Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
PBR Registration No. 109724 (§ 106.144)				
F-13	Lime Silo No. 2 Fabric Filter Stack	PM	0.05	0.24
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.03	0.12
F-14	Lime Silo No. 3 Fabric Filter Stack	PM	0.05	0.24
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.03	0.12
PBR Registration No. 102645 (§ 106.261 and 106.262)				
EAFDUST	EAF Dust Loading System	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
Unregistered PBRs (§106.183)				
F-27A	Horizontal Preheater at Slide Gate (first floor)	PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		CO	1.01	4.42
		NO_x	1.20	5.26
		SO_2	< 0.01	0.03
		VOC	0.07	0.29
F-27B	Horizontal Preheater at Slide Gate (first floor)	PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		CO	1.01	4.42
		NO_x	1.20	5.26
		SO_2	< 0.01	0.03
		VOC	0.07	0.29
F-27D	Vertical tundish preheater car-1 - at the Caster (2nd Floor)	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08

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		CO	0.19	0.85
		NO_x	0.23	1.01
		SO_2	< 0.01	< 0.01
		VOC	0.01	0.06
F-27E	Vertical tundish preheater car-2 - at the Caster (2nd Floor)	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		CO	0.19	0.85
		NO_x	0.23	1.01
		SO_2	< 0.01	< 0.01
		VOC	0.01	0.06
F-27F	Vertical preheater (downstairs by caster)	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
		CO	0.75	3.28
		NO_x	0.89	3.90
		SO_2	< 0.01	0.02
		VOC	0.05	0.21
F-27G	Tundish Dryer (downstairs by caster)	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		CO	0.17	0.74
		NO_x	0.20	0.88
		SO_2	< 0.01	< 0.01
		VOC	0.01	0.05
F-27H	Tundish Dryer (downstairs by caster)	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		CO	0.17	0.74
		NO_x	0.20	0.88
		SO_2	< 0.01	< 0.01

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		VOC	0.01	0.05

(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
$PM_{2.5}$ - total particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
Pb - lead
(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. 21, are not authorized by this permit, and will need separate authorization unless the activity can meet the conditions of 30 TAC §116.119 or 30 TAC 106.263.
(7) Silos represented to be shut down as of May 2020.

Date: July 12, 2023