

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 153381

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)
FUG-01	Frit Rail Delivery (5)	PM	0.13	0.18
		PM <sub>10</sub>	0.06	0.08
		PM <sub>2.5</sub>	<0.01	0.01
S-12	Frit Transport to Interior Silos Dust Collector Stack	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
S-06	Frit Silo to Ball Mill Dust Collector Stack	PM	0.08	0.06
		PM <sub>10</sub>	0.03	0.03
		PM <sub>2.5</sub>	<0.01	<0.01
FUG-04	Frit Silo to Ball Mill Fugitives (5)	PM	0.47	0.35
		PM <sub>10</sub>	0.22	0.16
		PM <sub>2.5</sub>	0.01	0.01
FUG-05	Addition of Carbon Black (5)	PM	0.12	0.09
		PM <sub>10</sub>	0.12	0.09
		PM <sub>2.5</sub>	0.12	0.09
FUG-06	Ball Mill Operation (5)	PM	0.19	0.14
		PM <sub>10</sub>	0.03	0.02
		PM <sub>2.5</sub>	<0.01	<0.01
S-05	Ball Mill Transfer Dust Collector Stack	PM	0.06	0.04
		PM <sub>10</sub>	0.03	0.02
		PM <sub>2.5</sub>	0.01	0.01
S-13	Silos 3 and 4 Bin Vent	PM	0.06	0.05
		PM <sub>10</sub>	0.03	0.03
		PM <sub>2.5</sub>	0.01	0.01

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S-01	Silos to Weigh Column Transfer Dust Collector Stack	PM	0.19	0.82
		PM <sub>10</sub>	0.10	0.44
		PM <sub>2.5</sub>	0.03	0.11
S-02	Pan Cleaning and Paint Booth Dust Collector Stack	PM	0.05	0.22
		PM <sub>10</sub>	0.03	0.12
		PM <sub>2.5</sub>	<0.01	0.02
S-03	Pan Cleaning and Paint Booth Dust Collectors Stack	PM	0.04	0.19
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	<0.01	0.01
S-04	Pan Cleaning and Paint Booth Dust Collectors Stack	PM	0.04	0.19
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	<0.01	0.01
FUG-09	Pan Cleaning and Paint Booth Fugitives (5)	PM	0.43	1.90
		PM <sub>10</sub>	0.24	1.04
		PM <sub>2.5</sub>	0.03	0.14
FUG-10	Mold Release Mixing Fugitives (5)	PM	0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
FUG-11	Pan Loading Fugitives (5)	PM	0.04	0.04
		PM <sub>10</sub>	0.02	0.02
		PM <sub>2.5</sub>	0.01	0.01
S-012	Stabilizing and Foaming Furnace Stack	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		CO	0.01	0.04
		VOC	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
FUG-012	Stabilizing and Foaming Furnace	PM	0.16	0.68

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		PM <sub>10</sub>	0.16	0.68
		PM <sub>2.5</sub>	0.09	0.38
		NO <sub>x</sub>	0.24	1.05
		CO	41.35	181.11
		VOC	1.03	4.50
		SO <sub>2</sub>	0.10	0.45
S-07	Pre-Anneal Grind Dust Collector Stack	PM	0.84	0.67
		PM <sub>10</sub>	0.37	0.29
		PM <sub>2.5</sub>	0.03	0.03
		H <sub>2</sub> S	<0.01	<0.01
FUG-14	Annealing Lehr (5)	PM	0.01	0.06
		PM <sub>10</sub>	0.01	0.06
		PM <sub>2.5</sub>	0.01	0.06
		NO <sub>x</sub>	0.17	0.74
		CO	0.14	0.62
		VOC	0.01	0.04
		SO <sub>2</sub>	<0.01	<0.01
S-11	Bun Transport Dust Collector Stack	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	0.01
FUG-15	Bun Transport Fugitives (5)	PM	0.01	0.04
		PM <sub>10</sub>	0.01	0.04
		PM <sub>2.5</sub>	0.01	0.04
S-08	Finishing Area Dust Collector Stack	PM	0.52	2.06
		PM <sub>10</sub>	0.23	0.90
		PM <sub>2.5</sub>	0.02	0.08
S-09	Finishing Area Dust Collector Stack	PM	0.52	2.06
		PM <sub>10</sub>	0.23	0.90
		PM <sub>2.5</sub>	0.02	0.08

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S-10	Finishing Area/Hammermill Dust Collector Stack	PM	0.65	2.25
		PM <sub>10</sub>	0.28	0.98
		PM <sub>2.5</sub>	0.03	0.09
		H <sub>2</sub> S	0.06	0.08
FUG-016	Finishing Area Fugitives (5)	PM	0.81	3.20
		PM <sub>10</sub>	0.35	1.40
		PM <sub>2.5</sub>	0.03	0.13
		H <sub>2</sub> S	0.72	2.84
DC-14	Grill Brick Dust Collector Stack	PM	0.05	0.06
		PM <sub>10</sub>	0.02	0.02
		PM <sub>2.5</sub>	<0.01	<0.01
FUG-017	Grill Brick Fugitives (5)	PM	0.14	0.16
		PM <sub>10</sub>	0.06	0.07
		PM <sub>2.5</sub>	<0.01	<0.01
		H <sub>2</sub> S	<0.01	<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
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H<sub>2</sub>S - 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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: April 9, 2019