

Emission Sources - Maximum Allowable Emission Rates

Permit Number 2537

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)
BH-23	Baghouse No. 23 Stack (6) (ETF Process)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	0.00001	0.00004
		ZnO	<0.01	<0.01
		PbO	<0.01	<0.001
BH-24	Baghouse No. 24 Stack (6) (Melting Pots No. 5-8 and Retorts No. 16-18)	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.00014	0.0006
		ZnO	0.01	0.04
		PbO	<0.001	<0.001
BH-25	Baghouse No. 25 Stack (6) (Melting Pots Nos. 1-4 and Retorts Nos. 2-4 and 7-8)	PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.00003	0.00013
		ZnO	0.01	0.05
		PbO	<0.001	0.001
BH-26	Baghouse No. 26 Stack (6) (Retorts No. 1,5,6)	PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.00003	0.00013
		ZnO	0.01	0.05
		PbO	<0.001	0.001

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BH-28	Baghouse No. 28 Stack (6) (Dust Mill No. 2)	PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.00015	0.00066
		Zn	0.12	0.50
		Pb	<0.001	0.001
BH-29	Baghouse No. 29 Stack (6) (Dust Mill No. 1)	PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.00011	0.00046
		Zn	0.07	0.33
		Pb	<0.001	0.001
BH-30	Baghouse No. 30 Stack (6) (Transfer Station)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	0.0002	0.00088
		Zn	<0.01	<0.01
		Pb	<0.001	<0.001
BH-31	Baghouse No. 31 Stack (6) (Retorts Nos. 9-15)	PM/	0.02	0.10
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.00032	0.0014
		ZnO	0.02	0.09
		PbO	<0.001	0.001
BH-34	Baghouse No. 34 Stack (6) (Dust Mill No. 2 Air Classifier)	PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.00015	0.00066
		Zn	0.12	0.50
		Pb	<0.001	0.001

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BH-36	Baghouse No. 36 Stack (6) (Dust Mill No. 1 Air Classifier)	PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.00011	0.00046
		Zn	0.07	0.33
		Pb	<0.001	0.001
FUG-1	Building No.1 Fugitives (5 & 6) (Dust Mill No.1 and No. 2)	PM	2.52	11.04
		PM ₁₀	2.52	11.04
		PM _{2.5}	0.378	1.656
		Zn	2.49	10.92
		Pb	0.004	0.018
FUG-2	Building No. 2 Fugitives (5 & 6) (ETF Process)	CO	0.17	0.74
		NO _x	0.20	0.88
		SO ₂	<0.01	0.01
		VOC	0.01	0.05
		PM	0.02	0.08
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.003	0.0011
		ZnO	<0.01	0.01
		PbO	<0.001	<0.001

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FUG-3	Building No. 3 Fugitives (5 & 6) (Transfer Station, Retorts 1-8, and Melt Pots 1-4)	CO	1.45	6.38
		NO _x	1.79	7.84
		SO ₂	0.01	0.05
		VOC	0.10	0.44
		PM	0.88	3.84
		PM ₁₀	0.88	3.84
		PM _{2.5}	0.88	3.84
		ZnO	0.66	2.88
		Zn	0.02	0.07
		PbO	0.007	0.032
		Pb	<0.001	<0.001
FUG-5	Building No. 5 Fugitives (5 & 6) (Retorts 9-18 and Melt Pots 5-8)	CO	1.74	7.66
		NO _x	2.14	9.37
		SO ₂	0.01	0.06
		VOC	1.13	0.52
		PM	1.08	4.68
		PM ₁₀	1.08	4.68
		PM _{2.5}	1.08	4.68
		ZnO	0.82	3.59
		PbO	0.000	0.04

- (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

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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
ZnO	- zinc oxide
Zn	- zinc
PbO	- lead oxide
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) The Zn, ZnO, PbO, and Pb are included in the particulate matter.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: September 23, 2016