

Emission Sources - Maximum Allowable Emission Rates

Permit Number 5918B

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 (4)	
			lbs/hour	TPY (5)
Current configuration - separate, positive pressure baghouses on each kiln exhaust (6)				
SC-1	Kiln No. 1 Baghouse	PM	10.8	47.3
		PM ₁₀	9.1	39.7
		VOC	18.8	82.2
		NO _x	295.5	1,294
		SO ₂	33.4	146.3
		CO	100	438
		HCl	0.42	1.8
SC-2	Kiln No. 2 Baghouse	PM	10.8	47.3
		PM ₁₀	9.1	39.7
		VOC	18.8	82.2
		NO _x	295.5	1,294
		SO ₂	33.4	146.3
		CO	100	438
		HCl	0.42	1.8
SC-3	Kiln No. 3 Baghouse	PM	11.8	51.7
		PM ₁₀	9.9	43.4
		VOC	20.7	90.7
		NO _x	306	1,340
		SO ₂	34.6	151.5
		CO	100	438
		HCl	0.42	1.8

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Future configuration - single, negative pressure baghouse for all three kiln exhausts (7)				
SC-4	Baghouse for Kiln Nos. 1-3	PM	33.4	146
		PM ₁₀	28.1	123
		VOC	58.3	255
		NO _x	897	3,929
		SO ₂	101	444
		CO	300	1,314
		HCl	1.26	5.4
Alternate Raw Materials - Point Source				
S-A-19	FCC Catalyst Silo Baghouse	PM	1.29	5.63
		PM ₁₀	0.64	2.82
Alternate Raw Materials - Fugitive Emission Sources (8)				
Fug	Material Handling (9)	PM	0.41	1.80
		PM ₁₀	0.19	0.85
F-A-7b	Styrene Catalyst Bunker Stockpile	PM	--	0.05
		PM ₁₀	--	0.03
F-A-15a	Styrene Catalyst Open Stockpile	PM	--	0.10
		PM ₁₀	--	0.05
F-A-16b	Mill Scale Bunker Stockpile	PM	--	0.17
		PM ₁₀	--	0.08
F-A-15b	Mill Scale Open Stockpile	PM	--	0.35
		PM ₁₀	--	0.16
F-A-20b	Aluminum Filter Cake Bunker Stockpile	PM	--	0.05
		PM ₁₀	--	0.03
F-A-15c	Aluminum Filter Cake Open Stockpile	PM	--	0.10
		PM ₁₀	--	0.05
F-A-15d	Bauxite Ore Open Stockpile	PM	--	0.10
		PM ₁₀	--	0.05
MSSFUG	Inherently low-emitting MSS Activities	PM	0.10	<0.01
		PM ₁₀	0.04	<0.01
		PM _{2.5}	0.01	<0.01
		NO _x	<0.01	<0.01
		CO	0.08	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.

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- (3) PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - HCl - hydrogen chloride
- (4) Planned maintenance, startup, and shutdown (MSS) emissions are included.
- (5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (6) Individual kiln limits remain applicable until single baghouse and stack are installed and fully operational.
- (7) The sum of the individual kiln limits are applicable following new baghouse project completion and until the compliance date established by the final cement kiln rule in Title 40 Code of Federal Regulations Part 63, following the litigation and re-proposal processes.
- (8) Emission rates are estimates and are enforceable through compliance with the applicable special conditions and permit application representations.
- (9) Material handling emission rate is the total for all alternate materials, as represented in the permit application received December 1995 and subsequently updated.

Date: November 4, 2014