

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 167047 and PSDTX1602

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	
			lbs/hour	TPY (4)
21-SK-230	Cement Kiln Baghouse Stack	NO _x	75.34	289.00
		SO ₂	83.33	213.31
		H ₂ SO ₄	152.76	58.66
		HCl	2.38	10.41
		CO	1249.88	1599.84
		PM	41.66	159.98
		PM ₁₀	41.66	159.98
		PM _{2.5}	41.66	159.98
		Pb	0.01	0.04
		Hg	<0.01	0.01
		VOC	25.24	100.49
		NH ₃	12.95	56.72
51-SK-250	Finish Mill Baghouse Stack	NO _x	0.16	0.70
		SO ₂	<0.01	0.04
		CO	1.31	5.74
		PM	3.23	14.13
		PM ₁₀	3.23	14.13
		PM _{2.5}	3.23	14.13
		VOC	0.09	0.38
10-BF-035	Crusher Building Baghouse Stack	PM	1.36	5.97
		PM ₁₀	1.36	5.97
		PM _{2.5}	1.36	5.97
10-BF-140	Material Transfer (LS to Storage) Baghouse Stack	PM	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.25	1.11

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12-BF-140	Additive Unloading (Rail) Baghouse Stack	PM	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.25	1.11
11-BF-270	Material Transfer (LS to Hopper) Baghouse Stack	PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
11-BF-285	Material Transfer (LS to Hopper) Baghouse Stack	PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
12-BF-315	Truck Unloading Baghouse Stack	PM	0.76	3.31
		PM ₁₀	0.76	3.31
		PM _{2.5}	0.76	3.31
12-BF-325	Material Transfer (Rail Add. to Storage) Baghouse Stack	PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
12-BF-360	Material Transfer (Truck Add. to Storage) Baghouse Stack	PM	0.13	0.55
		PM ₁₀	0.13	0.55
		PM _{2.5}	0.13	0.55
13-BF-030	Raw Mill Feed (Top of Bin Baghouse) Stack	PM	0.13	0.55
		PM ₁₀	0.13	0.55
		PM _{2.5}	0.13	0.55
13-BF-500	Raw Mill Feed Bin Building Baghouse Stack	PM	0.43	1.88
		PM ₁₀	0.43	1.88
		PM _{2.5}	0.43	1.88
20-BF-010	Raw Mill Building Baghouse Stack	PM	0.30	1.33
		PM ₁₀	0.30	1.33
		PM _{2.5}	0.30	1.33
20-BF-182	Raw Mill Building Baghouse Stack	PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
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20-BF-360	Raw Mill Building Baghouse Stack	PM	0.11	0.50
		PM ₁₀	0.11	0.50

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21-BF-330	Top of CKD Bin Baghouse Stack	PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.08	0.33
22-BF-060	Bottom of Raw Meal Silo Baghouse Stack	PM	0.23	0.99
		PM ₁₀	0.23	0.99
		PM _{2.5}	0.23	0.99
22-BF-080	Preheater Tower Baghouse Stack	PM	0.13	0.55
		PM ₁₀	0.13	0.55
		PM _{2.5}	0.13	0.55
22-BF-160	Top of Raw Meal Silo Baghouse Stack	PM	0.38	1.66
		PM ₁₀	0.38	1.66
		PM _{2.5}	0.38	1.66
22-BF-385	Top of Surge Bin (RM Silo) Baghouse Stack	PM	0.13	0.55
		PM ₁₀	0.13	0.55
		PM _{2.5}	0.13	0.55
30-BF-260	Bottom of Preheater Tower Baghouse Stack	PM	0.20	0.88
		PM ₁₀	0.20	0.88
		PM _{2.5}	0.20	0.88
30-BF-320	Top of Preheater Tower Baghouse Stack	PM	0.11	0.50
		PM ₁₀	0.11	0.50
		PM _{2.5}	0.11	0.50
42-BF-270	Cooler Discharge Baghouse Stack	PM	0.16	0.72
		PM ₁₀	0.16	0.72
		PM _{2.5}	0.16	0.72
41-BF-130	Top of Bin (Bypass Dust) Baghouse Stack	PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
44-BF-030	Top of Clinker Silo Baghouse Stack	PM	0.63	2.76
		PM ₁₀	0.63	2.76
		PM _{2.5}	0.63	2.76
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44-BF-185	Transfer Tower (Clinker Storage and Handling) Baghouse	PM	0.15	0.66
		PM ₁₀	0.15	0.66

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50-BF-050	Top of Clinker Feed Bin Baghouse Stack	PM	0.10	0.44
		PM ₁₀	0.10	0.44
		PM _{2.5}	0.10	0.44
50-BF-020	Top of Gypsum Feed Bin Baghouse Stack	PM	0.09	0.39
		PM ₁₀	0.09	0.39
		PM _{2.5}	0.09	0.39
50-BF-350	Cement Feed Bin Extraction Baghouse Stack	PM	0.40	1.77
		PM ₁₀	0.40	1.77
		PM _{2.5}	0.40	1.77
51-BF-050	Cement Mill Building Baghouse Stack	PM	0.30	1.32
		PM ₁₀	0.30	1.32
		PM _{2.5}	0.30	1.32
51-BF-140	Cement Mill Building Baghouse Stack	PM	0.23	1.01
		PM ₁₀	0.23	1.01
		PM _{2.5}	0.23	1.01
51-BF-350	Top of Cement Silo (Bucket Elevator Discharge) Baghouse Stack	PM	0.11	0.50
		PM ₁₀	0.11	0.50
		PM _{2.5}	0.11	0.50
51-BF-380	Bottom of Cement Silo (Bucket Elevator Feed) Baghouse Stack	PM	0.14	0.61
		PM ₁₀	0.14	0.61
		PM _{2.5}	0.14	0.61
52-BF-110	Top of Cement Silo 1 Baghouse Stack	PM	0.43	1.88
		PM ₁₀	0.43	1.88
		PM _{2.5}	0.43	1.88
53-BF-110	Top of Cement Silo 2 Baghouse Stack	PM	0.40	1.77
		PM ₁₀	0.40	1.77
		PM _{2.5}	0.40	1.77
52-BF-190	Top of Surge Bin (CM Silo-1) Baghouse Stack	PM	0.15	0.66
		PM ₁₀	0.15	0.66
		PM _{2.5}	0.15	0.66
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53-BF-190	Top of Surge Bin (CM Silo-2) Baghouse Stack	PM	0.15	0.66
		PM ₁₀	0.15	0.66

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52-BF-270	Loadout System (CM Silo-1) Baghouse Stack	PM	0.10	0.44
		PM ₁₀	0.10	0.44
		PM _{2.5}	0.10	0.44
53-BF-270	Loadout System (CM Silo-2) Baghouse Stack	PM	0.10	0.44
		PM ₁₀	0.10	0.44
		PM _{2.5}	0.10	0.44
LSCRSHBD_MH	Limestone - Material Handling LS Crusher Building (5)	PM	0.04	0.15
		PM ₁₀	0.02	0.07
		PM _{2.5}	<0.01	0.01
TRK_MH	Additive - Material Handling Truck Unloading (5)	PM	0.01	0.04
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
RR_MH	Additive - Material Handling Rail Unloading (5)	PM	0.01	0.04
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
LS_STKPL	Limestone Stockpile 1 (5)	PM	0.08	0.33
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.01	0.03
LS_STKPL	Limestone Stockpile 2 (5)	PM	0.08	0.33
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.01	0.03
ADD_STKPL	Gypsum Stockpile (5)	PM	0.03	0.11
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.002	0.01
ADD_STKPL	High Grade Limestone Stockpile (5)	PM	0.05	0.20
		PM ₁₀	0.02	0.10
		PM _{2.5}	<0.01	0.02
ADD_STKPL Project Number: 335160	Sand Stockpile (5)	PM	0.02	0.09
		PM ₁₀	0.01	0.05
		PM _{2.5}	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

EG-1	Emergency Generator Engine	NO _x	8.87	0.44
		SO ₂	<0.01	<0.01
		CO	17.74	0.89
		PM	0.14	0.01
		PM ₁₀	0.14	0.01
		PM _{2.5}	0.14	0.01
		VOC	4.58	0.23
NH3FUG	NH3 Fugitives (5)	NH ₃	0.06	0.28
MSSFUG	ILE MSS Activities	NO _x	<0.01	<0.01
		SO ₂	<0.01	<0.01
		CO	<0.01	<0.01
		PM	0.81	0.77
		PM ₁₀	0.66	0.76
		PM _{2.5}	0.28	0.38
		VOC	<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_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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
 - HCl - hydrogen chloride
 - H₂SO₄ - sulfuric acid
 - Pb - Lead
 - Hg - Mercury
 - NH₃ - ammonia
- (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.

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Emission Sources - Maximum Allowable Emission Rates
Permit Number GHGPSDTX212

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
21-SK-230	Cement Kiln Baghouse Stack	CO _{2e}	-	981,402.53
51-SK-250	Finish Mill Baghouse Stack	CO _{2e}	-	8,210.12
EG-1	Emergency Generator Engine	CO _{2e}	-	42.25

- (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) CO_{2e} - carbon dioxide equivalents based on the following Global Warming Potentials (GWP) found in Table A-1 of Subpart A 40 CFR Part 98 (78 FR 71904) for each pollutant: CO₂ (1), N₂O (298), CH₄(25)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

Date: DRAFT