

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20006

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)
Building A				
A2	Dryer Line 5 Stack	NO _x	0.112	0.50
		CO	0.05	0.22
		VOC	0.003	0.014
		PM	0.011	0.048
		SO ₂	0.0005	0.003
A3-1	Dryer Line 6 Vent 1	NO _x	0.112	0.50
		CO	0.05	0.22
		VOC	0.003	0.014
		PM	0.011	0.048
		SO ₂	0.0005	0.003
A3-2	Dryer Line 6 Vent 2	NO _x	0.112	0.50
		CO	0.05	0.22
		VOC	0.003	0.014
		PM	0.011	0.048
		SO ₂	0.001	0.003
AB1	Tunnel Kiln No. 4 Stack	NO _x	3.00	13.14
		CO	13.10	57.4
		VOC	1.68	7.4
		PM	4.25	18.6
		SO ₂	1.60	7.0
		HCl	0.42	1.82

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		HF	0.06	0.27
		NH ₃	2.7	9.4
		Pb	0.0002	0.0007
AC1	Tunnel Kiln No. 5 Stack	NO _x	3.00	13.14
		CO	13.10	57.4
		VOC	1.68	7.4
		PM	3.00	12.20
		PM ₁₀	2.10	8.50
		PM _{2.5}	1.58	6.40
		SO ₂	1.21	5.30
		HCl	0.22	1.00
		HF	0.06	0.27
D(1)	Tunnel Kiln No. 3 Stack	NO _x	3.00	13.14
		CO	13.10	57.4
		VOC	1.68	7.4
		PM	4.25	18.6
		SO ₂	1.60	7.0
		HCl	0.42	1.82
		HF	0.11	0.47
		NH ₃	2.7	9.4
		Pb	0.0002	0.0007
G	Bldg A – Boiler	NO _x	0.20	0.876
		CO	0.08	0.351
		VOC	0.01	0.044
		PM	0.02	0.088
		SO ₂	0.01	0.044
H	Tunnel Kiln No. 1 Stack	NO _x	3.10	13.14
		CO	13.10	57.2
		VOC	1.68	7.4

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		PM ₁₀	2.50	11.0
		SO ₂	1.21	5.3
		HCl	0.22	0.04
		HF	0.36	0.66
		Pb	0.0002	0.0007
N	Tunnel Kiln No. 2 Stack	NO _x	3.00	13.14
		CO	13.10	57.4
		VOC	1.68	7.4
		PM	4.25	11.0
		SO ₂	1.21	5.3
		HCl	0.22	0.04
		HF	0.36	0.66
		Pb	0.0002	0.0007
Building D				
A5	Bldg D - Boiler	NO _x	0.4	1.75
		CO	0.16	0.70
		VOC	0.02	0.09
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		SO ₂	0.02	0.09
B	Bldg D - Rotary Kiln Stack	NO _x	0.20	0.876
		CO	0.08	0.351
		VOC	0.01	0.044
		PM	0.02	0.088
		SO ₂	0.01	0.044
C	Bldg D - Rotary Kiln Scrubber Stack	HF	0.024	0.109
		NH ₃	0.02	0.088
		NH ₄ F	0.138	0.43
E	Bldg D – U1 Dryer Scrubber Stack	NO _x	0.5	2.19

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		CO	0.7	3.07
		VOC	0.15	0.66
		PM	0.4	1.75
		PM ₁₀	0.2	0.88
		PM _{2.5}	0.1	0.44
		SO ₂	0.13	0.57
		CH ₂ O ₂	2.0	8.76
		HF	0.4	1.75
		NH ₃	1.6	7.01
X	Bldg D – U2 Dryer Scrubber Stack	NO _x	0.8	3.50
		CO	0.7	3.07
		VOC	0.2	0.88
		PM	0.4	1.75
		PM ₁₀	0.2	0.88
		PM _{2.5}	0.1	0.44
		SO ₂	0.13	0.57
		CH ₂ O ₂	3.0	13.14
		HF	0.6	2.63
		NH ₃	2.6	11.39
Building E				
EkC	Bldg E – Rotary Kiln Stack	NO _x	0.8	3.50
		CO	0.24	1.05
		VOC	0.5	0.22
		PM	1.0	4.38
		PM ₁₀	0.2	0.88
		PM _{2.5}	0.02	0.09
		SO ₂	0.3	1.31
EkP	Bldg E – Rotary Kiln - Baghouse-Scrubber Stack	PM	1.0	4.38
		PM ₁₀	0.2	0.88

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		PM _{2.5}	0.02	0.09
		HCl	0.15	0.66
		HF	0.2	0.88
		NH ₃	0.06	0.26

- (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) NO_x - total oxides of nitrogen
 CH₂O₂ - formic acid
 CO - carbon monoxide
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 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
 SO₂ - sulfur dioxide
 HCl - hydrogen chloride
 HF - hydrogen fluoride
 NH₃ - ammonia
 NH₄F - ammonium fluoride
 Pb - lead
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Date: November 24, 2015