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
AD1	Tunnel Kiln No. 6 Stack	NO_x	3.00	13.14
		CO	13.10	57.4
		VOC	1.68	7.4
		PM	3.00	12.2
		PM_{10}	2.10	8.5
		$PM_{2.5}$	1.58	6.4
		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

Emission Sources - Maximum Allowable Emission Rates

		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
		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

Emission Sources - Maximum Allowable Emission Rates

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_4F	0.138	0.43
E	Bldg D – U1 Dryer Scrubber Stack	NO_x	0.5	2.19
		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_2O_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_2O_2	3.0	13.14
		HF	0.6	2.63
		NH_3	2.6	11.39
Building E				

Emission Sources - Maximum Allowable Emission Rates

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	NO_x	0.10	0.44
		PM	1.0	4.38
		PM_{10}	0.2	0.88
		$PM_{2.5}$	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
CH_2O_2 - 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 PM_{10} and $PM_{2.5}$
PM_{10} - 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
SO_2 - sulfur dioxide
HCl - hydrogen chloride
HF - hydrogen fluoride
NH_3 - ammonia
NH_4F - ammonium fluoride
Pb - lead
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Date: February 28, 2018