Emission Sources - Maximum Allowable Emission Rates

Permit Number 4421A

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)
B-1	No. 1 Boiler	CO	0.50	2.16
		NO_x	0.39	1.69
		PM	0.08	0.34
		PM_{10}	0.08	0.34
		SO_2	0.01	0.04
		VOC	0.08	0.34
B-2	No. 2 Boiler	CO	1.06	4.42
		NO_x	1.26	5.26
		PM	0.10	0.40
		PM_{10}	0.10	0.40
		SO_2	0.01	0.04
		VOC	0.07	0.42
C-1	No. 3 Limestone Silo Dust Collector	PM	0.26	0.13
		PM_{10}	0.26	0.13
C-2	Mineral Application Process Dust Collector Line 1	PM	0.34	1.47
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.01	0.04
C-3	Mineral Application Process Dust Collector Line 2	PM	0.34	1.47
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.01	0.04
C-4	Sand Silo Dust Collector	PM	0.03	0.13
		PM_{10}	0.03	0.13
C-5	Line 1 and Line 2 Shingle Substrate Process Dust and Fiber Collector	PM	3.54	15.52
		PM_{10}	0.80	3.50
		$PM_{2.5}$	0.11	0.48

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C-6	Granule and Head Lap Process Dust Collector	PM	0.67	2.95
		PM_{10}	0.15	0.66
		$PM_{2.5}$	0.02	0.09
COOL-1	Line 1 Cooling Section Building Vent	PM	0.10	0.44
		PM_{10}	0.10	0.44
COOL-2	Line 2 Cooling Section Building Vent	PM	0.10	0.44
		PM_{10}	0.10	0.44
E-1	Emergency Generator	CO	0.52	0.23
		NO_x	2.40	1.05
		PM	0.17	0.08
		PM_{10}	0.17	0.08
		SO_2	0.16	0.07
		VOC	0.19	0.09
F-5	Line 2 Sealant Applicator System	VOC	0.03	0.10
F-14	Afterburner Stack (6)	CO	49.80	62.25
		HCl	0.34	0.42
		NO_x	4.62	5.78
		PM	6.60	8.25
		PM_{10}	6.60	8.25
		SO_2	19.90	87.00
		VOC	1.20	1.50
G-1	Batch House (Granule Silos)	PM	2.62	2.62
		PM_{10}	2.62	2.62
H-1	No. 2 Born Coating Heater	CO	1.18	4.92
		NO_x	1.40	5.85
		PM	0.11	0.45
		PM_{10}	0.11	0.45
		SO_2	0.01	0.04
		VOC	0.08	0.33
H-2	No. 3 Born Coating Heater	CO	1.18	4.92
		NO_x	1.40	5.85

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		PM	0.11	0.45
		PM_{10}	0.11	0.45
		SO_2	0.01	0.04
		VOC	0.08	0.33
H-3	No. 2 Cuttler Coating Heater	CO	0.51	2.11
		NO_x	0.60	2.51
		PM	0.05	0.19
		PM_{10}	0.05	0.19
		SO_2	< 0.01	0.02
		VOC	0.04	0.14
H-4	Hot Oil Heater No. 1	CO	0.34	1.41
		NO_x	0.40	1.67
		PM	0.03	0.13
		PM_{10}	0.03	0.13
		SO_2	< 0.01	0.01
		VOC	0.03	0.10
H-5	Limestone Filler Heater	CO	0.28	1.20
		NO_x	0.70	3.05
		PM	0.06	0.24
		PM_{10}	0.06	0.24
		SO_2	0.01	0.02
		VOC	0.04	0.18
H-9	Hot Oil Heater No. 2	CO	0.11	0.46
		NO_x	0.13	0.55
		PM	0.01	0.04
		PM_{10}	0.01	0.04
		SO_2	< 0.01	0.01
		VOC	0.01	0.03
L-1A	No. 1 Limestone Silo Dust Collector A	PM	0.26	1.14
		PM_{10}	0.26	1.14
L-2	No. 2 Limestone Silo Dust Collector	PM	0.26	0.59
		PM_{10}	0.26	0.59
L-3	Horizon Limestone Dust Collector	PM	0.69	3.01

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	Limestone Run Tank	PM_{10}	0.69	3.01
T-2	No. 2 Tank Fume Filter	VOC	1.90	8.82
T-3	Line 1 Fume Filter	CO	0.45	1.95
		PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
		VOC	2.31	10.13
T-4	Sealant Tank	VOC	0.03	0.05
T-5	Laminant Tank	VOC	0.03	0.11
T-6	Fume Filter	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		VOC	0.39	1.73
T-7	Line 2 Coater Surge Tank Fume Filter	CO	0.58	2.55
		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		VOC	5.28	23.11
F-1	Fugitives (5)	VOC	1.28	5.59
F-2	Maintenance Fugitives (5)	CO	< 0.01	< 0.01
		NO_x	0.04	< 0.01
		PM	0.01	< 0.01
		PM_{10}	0.01	< 0.01
		SO_2	0.11	< 0.01
		VOC	< 0.01	< 0.01
MFGBLDG	Manufacturing Building (Paint and Ink Jet Printer) (5)	VOC	0.27	1.12
Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by each PBR as listed below:				
Non registered 106.371 Claim				
CT-1	Large Cooling Tower	PM	0.35	1.50
		PM_{10}	0.35	1.50
CT-2	Small Cooling Tower	PM	0.07	0.30
		PM_{10}	0.07	0.30
PBR Registration No. 54978				

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G-3	Railcar Granule Unloading	PM	4.37	3.82
		PM_{10}	4.37	3.82
PBR Registration No. 72625				
F-6	Line 1 Sealant Applicator System	VOC	0.03	0.10

(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 - carbon monoxide
HCl - hydrogen chloride
NO_x - total oxides of nitrogen
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
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
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(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) Phosphorus emissions are included in the PM and PM_{10}.

Date September 6, 2012