

Emission Sources - Maximum Allowable Emission Rates

Permit Number 326B

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)
1-DC-1	F&G 1st Loop Dust Collector	VOC	0.01	0.04
		CO	0.05	0.21
		NO _x	0.60	2.52
		PM	0.57	2.38
		PM ₁₀	0.57	2.38
		PM _{2.5}	0.57	2.38
1-DC-7	F&G 2nd Loop Dust Collector	VOC	0.01	0.04
		CO	0.05	0.21
		NO _x	0.60	2.52
		PM	0.73	3.07
		PM ₁₀	0.73	3.07
		PM _{2.5}	0.73	3.07
1-FN-21	F&G Inside Split Bin Fan	PM	0.03	0.11
		PM ₁₀	0.03	0.11
		PM _{2.5}	0.03	0.11
1-DC-6	F&G Main Plant Central Vacuum System	PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
11-DC-8	P85 Dust Collector	VOC	0.01	0.03
		CO	0.03	0.14
		NO _x	0.40	1.68
		PM	0.53	2.23

Emission Sources - Maximum Allowable Emission Rates

		PM ₁₀	0.53	2.23
		PM _{2.5}	0.53	2.23
11-DC-21	Spec Splits Bin Dust Collector	PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
11-DC-31	P04 Dust Collector	VOC	0.01	0.05
		CO	0.07	0.29
		NO _x	0.80	3.36
		PM	0.86	3.60
		PM ₁₀	0.86	3.60
		PM _{2.5}	0.86	3.60
T-116	Wash Water Tank	VOC	0.01	0.02
MIXTK	Dissolution Process Tank	Sulfuric Acid	<0.01	<0.01
		VOC	0.03	0.03
11-TA-77	P85/P04/P08 Scrubber	VOC	0.09	0.16
		3C2HTMC	0.01	0.01
		13B2HPD	0.01	0.01
		Sodium Hydroxide	0.04	0.04
		Hydrogen Peroxide	0.01	0.01
21-DC-1	Air Mix I Receiver Dust Collector	PM	0.30	1.26
		PM ₁₀	0.30	1.26
		PM _{2.5}	0.30	1.26
21-DC-2	Air Mix I Blender Dust Collector	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
21-DC-3	Air Mix I Packer Dust Collector	PM	0.16	0.69
		PM ₁₀	0.16	0.69
		PM _{2.5}	0.16	0.69
21-DC-4	Air Mix II Receiver	PM	0.17	0.74

Emission Sources - Maximum Allowable Emission Rates

		PM ₁₀	0.17	0.74
		PM _{2.5}	0.17	0.74
21-DC-5	Air Mix I Supersack Receiver/Collector	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
21-FN-10	Air Mix II Chemical Feeding Hopper Vent Fan	PM	0.03	0.11
		PM ₁₀	0.03	0.11
		PM _{2.5}	0.03	0.11
22-DC-1	Bean Cleaning Dust Collector	PM	0.30	1.26
		PM ₁₀	0.30	1.26
		PM _{2.5}	0.30	1.26
33-BR-1	#1 BOILER	VOC	0.03	0.13
		CO	0.90	3.30
		NO _x	1.10	3.90
		SO ₂	0.01	0.02
		PM	0.08	0.30
		PM ₁₀	0.08	0.30
		PM _{2.5}	0.08	0.30
33-BR-2	#2 BOILER	VOC	0.03	0.13
		CO	0.90	3.30
		NO _x	1.10	3.90
		SO ₂	0.01	0.02
		PM	0.08	0.30
		PM ₁₀	0.08	0.30
		PM _{2.5}	0.08	0.30
35-DC-9	Air Mix III Receiver Dust Collector	PM	0.30	1.26
		PM ₁₀	0.30	1.26
		PM _{2.5}	0.30	1.26

Emission Sources - Maximum Allowable Emission Rates

35-DC-10	Air Mix III Blender Dust Collector	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
35-DC-15	Air Mix III Central Vacuum System	PM	0.05	0.23
		PM ₁₀	0.05	0.23
		PM _{2.5}	0.05	0.23
35-FN-1	Air Mix III Process Storage Bin Vent Fan	PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
35-FN-3	Air Mix III Dust Collector Receiver Fan	PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
35-FN-4	Air Mix III Feeding Hopper Vent	PM	0.03	0.11
		PM ₁₀	0.03	0.11
		PM _{2.5}	0.03	0.11
36-DC-3	P80 Dust Collector	VOC	0.01	0.05
		CO	0.07	0.29
		NO _x	0.80	3.36
		PM	1.20	5.04
		PM ₁₀	1.20	5.04
		PM _{2.5}	1.20	5.04
36-FN-1	P80 Splits Bin Vent Fan	PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
36-TA-4	P80 Wet Scrubber Tank	Propylene Oxide	0.25	1.05
P-100-4	Aquaflow Vac Pump	VOC	0.05	0.10
H-TT	Product Drum Packout	VOC	0.01	0.02
BLDG36	Building 36	VOC	1.72	4.26

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		PM	0.02	0.01
		PM ₁₀	0.02	0.01
		PM _{2.5}	0.02	0.01
		Sulfuric Acid	0.02	0.09
		Potassium Phosphate	0.01	<0.01
BLDG36	Building 36 FIN SCAFUG	VOC	0.08	0.36
PAPEFUGTF	Tank Farm and Tank Truck Loading Losses	VOC	0.13	0.58
T-110	Product Tank T-110	VOC	0.03	0.04
T-120	Product Tank T-120	VOC	0.03	0.04
T-130	Product Tank T-130	VOC	0.03	0.04
T-107	Solvent Storage Tank	VOC	0.31	0.03
T-117	Bromide Weigh Tank	VOC	0.01	0.01
T-103	DBM Weigh Tank	VOC	0.04	0.05
TMAFUG	TMA Fugitives	VOC	0.01	0.01
T-102	Bromide Weigh Tank	VOC	0.01	0.01
BLDG37	Product Packout - Drum Loading	VOC	0.01	0.02
11-TA-23	Sulfuric Acid Storage Tank	Sulfuric Acid	0.01	0.01
T-104	Tetronic 304/ TMP-15EO Tank	VOC	0.01	0.01
1-DC-2	F&G Flexkleen SON Dust Collector	PM	0.32	1.41
		PM ₁₀	0.32	1.41
		PM _{2.5}	0.32	1.41
1-DC-5	Plant Blender Dust Collector	PM	0.20	0.89
		PM ₁₀	0.20	0.89
		PM _{2.5}	0.20	0.89
10-DC-1	Jumbo Dust Collector	PM	0.16	0.71
		PM ₁₀	0.16	0.71

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		PM _{2.5}	0.16	0.71
11-DC-3	Derivatives Blender Dust Collector	PM	0.13	0.57
		PM ₁₀	0.13	0.57
		PM _{2.5}	0.13	0.57
11-FN-7	Derivatives Storage Bins 8-15 Vent Fan	PM	0.27	1.17
		PM ₁₀	0.27	1.17
		PM _{2.5}	0.27	1.17
19-FN-1	T-Process Dust Collector Fan	PM	0.25	1.07
		PM ₁₀	0.25	1.07
		PM _{2.5}	0.25	1.07
11-TA-62	Acetic Acid Tank Scrubber	Acetic Acid	0.02	<0.01
11-FN-26	P85/P04 Mix Tanks	Sodium Hydroxide	0.04	0.04
		Hydrogen Peroxide	0.01	0.01
		Acetic Acid	0.01	0.01
		Glyoxal	0.06	0.08
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
19-BN-1	T-Process Burner	VOC	0.01	0.03
		CO	0.22	0.78
		NO _x	0.26	0.93
		SO ₂	0.01	0.01
		PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
11-TA-21	Caustic Storage Tank	Sodium Hydroxide	0.29	0.01
T-216	Bromide Tank	VOC	<0.01	<0.01
P-200-6	Condensate Tank	VOC	<0.01	<0.01

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36-PU-40	SCA Roto Cyclone Scrubber	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
11-TA-1	Gasoline Tank	VOC	3.87	0.06
T-140	Aquaflow Product Storage Tank	VOC	0.07	0.29
T-150	Intermediate Aqua Flow Storage Tank	VOC	0.01	0.05
T-203	DBM Weigh Tank	VOC	0.01	0.02
T-204	Bromide Weigh Tank	VOC	<0.01	<0.01
SITE-WIDE	all emission sources at this site	Individual HAP	-	<10.00
		Combined HAPs	-	<25.00

- (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
- CO - carbon monoxide
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
- PM₁₀ - 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
- 3C2HTMC - 3-chloro-2-hydroxypropyl trimethylammonium chloride
- 13B2HPD - 1,3-bis(trimethylammonium)-2-hydroxypropane dichloride
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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.

Date: April 30, 2015