

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 18384 and N002

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)
70A/B	Dryer/Centrifuge No. 1	VOC	25.20	-
		VCM (8)	7.35	-
		PM	1.48	6.48
		PM ₁₀	1.48	6.48
		PM _{2.5}	1.48	6.48
71A/B	Dryer/Centrifuge No. 2	VOC	19.08	40.00
		VCM (8)	7.00	-
		PM	1.48	6.48
		PM ₁₀	1.48	6.48
		PM _{2.5}	1.48	6.48
72A/B	Dryer/Centrifuge No. 3	VOC	21.00	40.00
		VCM (8)	7.00	-
		PM	1.48	6.48
		PM ₁₀	1.48	6.48
		PM _{2.5}	1.48	6.48
83A/B	Dryer/Centrifuge No. 4	VOC	13.30	28.57
		VCM (8) (9)	6.30	-
		PM	1.13	4.95
		PM ₁₀	1.13	4.95
		PM _{2.5}	1.13	4.95

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89A/B	Dryer/Centrifuge No. 5	VOC	20.00	-
		VCM (8)	8.80	-
		PM	1.48	6.48
		PM ₁₀	1.48	6.48
		PM _{2.5}	1.48	6.48
90A/B	Dryer/Centrifuge No. 6	VOC	20.00	-
		VCM (8)	8.80	-
		PM	1.48	6.48
		PM ₁₀	1.48	6.48
		PM _{2.5}	1.48	6.48
92A/B/C	Dryer/Centrifuge No. 7	VOC	26.50	-
		VCM (8)	11.66	-
		PM	2.26	9.90
		PM ₁₀	2.26	9.90
		PM _{2.5}	2.26	9.90
70A/B, 71A/B, 72A/B, 83A/B, 89A/B, 90A/B, and 92A/B/C	PVC Dryer Emission Caps: Production Lines 1 – 7 (6)	VOC	-	128.30
		VCM (8)	-	11.00
		MeOH (10)		14.00
77A-H, 77J-N, and 77P-Y	PVC Storage Silos (6)	PM	1.31	5.74
		PM ₁₀	1.31	5.74
		PM _{2.5}	1.31	5.74
78A	Off-Loading Silos (6)	PM	0.09	0.07
		PM ₁₀	0.09	0.07
		PM _{2.5}	0.09	0.07
78B	Off-Loading Silos (6)	PM	0.09	0.07
		PM ₁₀	0.09	0.07

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		PM _{2.5}	0.09	0.07
F-74	Process Fugitives (5)	VOC	6.39	27.22
		VCM (8)	6.05	25.74
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
88	A Incinerator System	VOC	0.28	0.55
		VCM (8)	0.06	0.26
		HCl	0.44	1.94
		SO ₂	<0.01	0.01
		NO _x	0.49	2.15
		PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.08	0.33
		CO	0.41	1.80
87	B Incinerator System	VOC	0.28	0.55
		VCM (8)	0.06	0.26
		HCl	0.44	1.94
		SO ₂	<0.01	0.01
		NO _x	0.30	1.31
		PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.08	0.33
		CO	0.41	1.80
120	Cooling Tower 120	VOC	1.40	6.14
		VCM (8)	0.35	1.53
		PM	1.68	7.36

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		PM ₁₀	0.84	3.68
		PM _{2.5}	0.02	0.07
		Cl ₂	0.01	0.01
130	Solution Preparation	VOC	4.75	0.44
131	Solution Preparation Blower Vent	VOC	0.98	0.04
139	Large Gas Holder	VCM	2.04	0.41
		VOC/Non-VCM HAP	2.58	0.52
140	Small Gas Holder	VCM	0.56	0.11
		VOC/Non-VCM HAP	0.03	0.01
75	Flare	VOC	<0.01	0.01
		NO _x	0.09	0.39
		CO	0.17	0.74
		SO ₂	0.01	0.01
91	Gas-Fired ZO1-F6 Boiler (203.6 MMBtu/hr)	VOC	1.09	3.47
		PM	1.50	4.80
		PM ₁₀	1.50	4.80
		PM _{2.5}	1.50	4.80
		NO _x	12.22	39.00
		SO ₂	0.13	0.42
		CO	19.52	85.50
25	F4 Steam Boiler	VOC	0.91	3.98
		NO _x	10.20	44.68
		CO	12.07	52.87
		SO ₂	0.10	0.43
		PM	1.25	5.49
		PM ₁₀	1.25	5.49
		PM _{2.5}	1.25	5.49
26	F7 Steam Boiler	VOC	0.80	3.50
		NO _x	4.00	8.76
		CO	7.20	31.54
		SO ₂	0.13	0.57
		PM	1.48	6.46

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F-74-MSS	Equipment Opening	PM ₁₀	1.48	6.46
		PM _{2.5}	1.48	6.46
		VOC-Total	143.78	1.97
		VCM	94.41	1.70
		Non-VCM VOC	-	0.27
		Other VOC (7)	0.04	-
		OMS	9.44	-
		MeOH	9.44	-
		Ethanol	9.44	-
		Acetaldehyde	1.92	-
		Acetophenone	9.38	-
		Formaldehyde	0.32	-
		Cumene	9.39	-

- (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 including VCM.
 NO_x - total oxides of nitrogen
 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
 CO - carbon monoxide
 VCM - vinyl chloride monomer
 HCl - hydrogen chloride
 OMS - odorless mineral spirits
 Cl₂ - chlorine
 MeOH - methanol
- (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) Dryer VOC hourly emission limits and the annual emission cap also apply to all EPNs downstream of the dryers (PVC Storage and Loading Silos [EPNs 77A-H, 77J-N, 77P-Y, 78A, 78B]; and PVC Loading [EPNs 77A-L-77H-L, 77J-L-77N-L, 77P-L-77Y-L, 78A-L, and 78B-L]).
- (7) Unspeciated VOCs, each having a short-term ESL ≥ 2 µg/m³ and an annual ESL ≥ 10 percent of a compound's short-term ESL.
- (8) VCM emissions are included in the allowable VOC emission rates.
- (9) VCM is limited to 6.30 lb/hr for 72 hours per month (when processing coarse batches) and is limited to 3.15 lb/hr for all other hours.
- (10) The Methanol emission rate sub-cap has been authorized as a result of an application for Emission Reduction Credits (EBT Project 410326). This emission limit cannot be relaxed for the service life of the facilities (V-301, V-302, V-303, V-304, V-305, V-306, and V-307).

Date: March 7, 2022