

Emission Sources - Maximum Allowable Emission Rates

Permit Number 4673B

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)
DPP 30	A Dryer Scrubber	VCM	(6)	(6)
		VOC (8)	0.11	0.48
		Non-VCM HAP (9)	0.18	0.77
		PM	1.87	8.17
		PM ₁₀	1.87	8.17
		PM _{2.5}	1.87	8.17
		NO _x	2.80	12.26
		SO ₂	0.01	0.04
		CO	0.70	3.07
DPP 31	B Dryer Scrubber	VCM	(6)	(6)
		VOC (8)	0.11	0.48
		Non-VCM HAP (9)	0.18	0.77
		PM	1.87	8.17
		PM ₁₀	1.87	8.17
		PM _{2.5}	1.87	8.17
		NO _x	2.80	12.26
		SO ₂	0.01	0.04
		CO	0.70	3.07
DPP 40	Silo Dust Collector 570 Baghouse	VCM	(6)	(6)
		PM	0.22	0.97
		PM ₁₀	0.22	0.97
		PM _{2.5}	0.22	0.97
DPP 41	Silo Dust Collector 580 Baghouse	VCM	(6)	(6)
		PM	0.22	0.97
		PM ₁₀	0.22	0.97

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		PM _{2.5}	0.22	0.97
DPP 42	Silo Dust Collector 590 Baghouse	VCM	(6)	(6)
		PM	0.20	0.89
		PM ₁₀	0.20	0.89
		PM _{2.5}	0.20	0.89
DPP 43	Resin Dust Collector	VCM	(6)	(6)
		PM	0.72	3.15
		PM ₁₀	0.72	3.15
		PM _{2.5}	0.72	3.15
DPP 45	A Train Receiver	VCM	(6)	(6)
		PM	0.17	0.76
		PM ₁₀	0.17	0.76
		PM _{2.5}	0.17	0.76
DPP 46	B Train Receiver	VCM	(6)	(6)
		PM	0.17	0.76
		PM ₁₀	0.17	0.76
		PM _{2.5}	0.17	0.76
DPP 51	Vacuum Cleaner Baghouse	VCM	(6)	(6)
		PM	0.03	0.13
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
DPP 71	Storage Silo Dust Collector 514 Baghouse	VCM	(6)	(6)
		PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.15	0.64
DPP 72	Storage Silo Dust Collector 515 Baghouse	VCM	(6)	(6)
		PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.15	0.64

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DPP 73	Storage Silo Dust Collector 516 Baghouse	VCM	(6)	(6)
		PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.15	0.64
DPP 74	Storage Silo Dust Collector 517 Baghouse	VCM	(6)	(6)
		PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.15	0.64
DPP 80	Ammonia Scrubber	Ammonia	0.01	0.01
DPP 84	Blending Silo Dust Collector 526 Baghouse	VCM	(6)	(6)
		PM	0.12	0.54
		PM ₁₀	0.12	0.54
		PM _{2.5}	0.12	0.54
DPP 85	Blending Silo Dust Collector 527 Baghouse	VCM	(6)	(6)
		PM	0.12	0.54
		PM ₁₀	0.12	0.54
		PM _{2.5}	0.12	0.54
DPP 86	Blending Silo Dust Collector 528 Baghouse	VCM	(6)	(6)
		PM	0.12	0.54
		PM ₁₀	0.12	0.54
		PM _{2.5}	0.12	0.54
DPP 87	Blending Silo Dust Collector 525 Baghouse	VCM	(6)	(6)
		PM	0.12	0.54
		PM ₁₀	0.12	0.54
		PM _{2.5}	0.12	0.54
DPP 88	Storage Silo Dust Collector 511 Baghouse	VCM	(6)	(6)
		PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.15	0.64

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DPP 91	Storage Silo Dust Collector 510 Baghouse	VCM	(6)	(6)
		PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.15	0.64
DPP 94	Storage Silo Dust Collector 595 Baghouse	VCM	(6)	(6)
		PM	0.15	0.68
		PM ₁₀	0.15	0.68
		PM _{2.5}	0.15	0.68
DPP 96	Blend Tank A	VCM	0.08	(6)
		Non-VCM HAP (10)	0.01	0.01
DPP 97	Blend Tank AA	VCM	0.08	(6)
		Non-VCM HAP (10)	0.01	0.01
DPP 98	Blend Tank B	VCM	0.08	(6)
		Non-VCM HAP (10)	0.01	0.01
DPP 99	Blend Tank BB	VCM	0.08	(6)
		Non-VCM HAP (10)	0.01	0.01
DPP 101	PVC Truck Transloading	VCM	(6)	(6)
		PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
DPP 102	Process Fugitives (5)	VOC (7)	0.09	0.38
		VCM	0.84	3.66
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		Ammonia	0.39	1.70
DPP 104	Bulk Emulsifier Tank	VOC (7)	0.09	0.01
DPP 110	Centrifuge Vent A	VCM	0.36	(6)
		Non-VCM HAP (10)	0.05	0.22

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DPP 111	Centrifuge Vent B	VCM	0.36	(6)
		Non-VCM HAP (10)	0.05	0.22
DPP 71-L through 75L, 84-L through 88-L, 91-L and 94-L	PVC Rail Car Loading	VCM	(6)	(6)
Maintenance, Startup and Shutdown (MSS)				
DPP 95	Equipment Clearings	VCM	0.54	0.01
DPP 57A & DPP 57B	PVC Process Equipment MSS Emissions Venting through Evacuation Compressor or Steam Jet	VCM	10.73	0.96
		Methanol	5.49	(11)
		Other VOC (12)	0.04	(11)
DPP 57A	PVC Process Equipment MSS Emissions Venting through Evacuation Compressor	Acetaldehyde	0.78	(11)
		Acetophenone	4.26	(11)
		Cumene	4.34	(11)
		Formaldehyde	0.13	(11)
DPP 57B	PVC Process Equipment MSS Emissions Venting through Steam Jet	Acetaldehyde	1.93	(11)
		Acetophenone	10.52	(11)
		Cumene	10.73	(11)
		Formaldehyde	0.32	(11)
PVC Caustic Plant				
DPC-035	Scrubber	PM	0.90	3.94
		PM ₁₀	0.90	3.94
		PM _{2.5}	0.90	3.94
DPS-032A	East Dowtherm Heater	NO _x	1.80	7.88
		CO	1.51	6.61
		PM	0.14	0.61
		PM ₁₀	0.14	0.61
		PM _{2.5}	0.14	0.61
		VOC (13)	0.10	0.44
		HAP	0.03	0.13
		SO ₂	0.24	1.05

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DPS-032B	West Dowtherm Heater	NO _x	1.80	7.88
		CO	1.51	6.61
		PM	0.14	0.61
		PM ₁₀	0.14	0.61
		PM _{2.5}	0.14	0.61
		VOC (13)	0.10	0.44
		HAP	0.03	0.13
		SO ₂	0.24	1.05
DPC-036	Dowtherm Bulk Storage Tank T-903	VOC (13)	0.23	0.01
DPC-037	Dowtherm Fugitives (5)	VOC (13)	0.01	0.06
DPC-039	Dowtherm Purification Still	VOC (13)	0.27	0.05
F-DP-M02	Abrasive Blasting	PM	3.83	2.40
		PM ₁₀	0.48	0.29
		PM _{2.5}	0.07	0.04
F-DP-W01	Wastewater Treatment Fugitives	VOC (14)	3.14	13.70
		VCM	(14)	1.95
		Non-VCM HAP	(14)	1.63
F-DPU-02	Utilities Area Fugitives (5)	Freon	0.38	1.65
DPU-007	Boiler No. 1	NO _x	1.05	4.60
		CO	5.13	22.47
		PM	0.72	3.15
		PM ₁₀	0.72	3.15
		PM _{2.5}	0.72	3.15
		VOC (13)	0.38	1.66
		HAP	0.18	0.78
		SO ₂	0.06	0.26
DPU-008	Boiler No. 2	NO _x	1.05	4.60
		CO	5.13	22.47

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	PM	0.72	3.15
	PM ₁₀	0.72	3.15
	PM _{2.5}	0.72	3.15
	VOC (13)	0.38	1.66
	HAP	0.18	0.78
	SO ₂	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) VCM - vinyl chloride monomer
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- 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
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- 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}
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- SO₂ - sulfur dioxide
- (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) Total for residual VCM emissions is 2.16 pounds per hour and 2.96 tons per year
- (7) Total VOC not including VCM and other hazardous air pollutants
- (8) VOC emissions due to combustion of natural gas.
- (9) Acetaldehyde and other unspciated HAP due to decomposition reactions and the combustion of natural gas.
- (10) Acetaldehyde and other unspciated HAP, not including VCM, due to decomposition reactions.
- (11) Total non-VCM VOC emissions is 0.18 tpy.
- (12) Unspciated VOC other than VCM and methanol having a short term ESL $\geq 2\mu\text{g}/\text{m}^3$ and an annual ESL ≥ 10 percent of its short-term ESL.
- (13) VOC emissions include HAP
- (14) VOC emissions include VCM and non-VCM HAP

Date: July 24, 2018