

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19109

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)
Q1INC	Q1 Incinerator	VOC	3.35	6.75
		PM	0.44	1.20
		PM10	0.44	1.20
		PM2.5	0.44	1.20
		NOx	8.67	18.51
		SO2	0.03	0.11
		CO	19.70	42.06
HSFLARE	Q1 Flare (6)(8)	VOC	203.66	13.98
		NOx	30.46	3.72
		SO2	0.34	0.10
		CO	155.22	19.62
	Q1 Flare - startup, shutdown, and maintenance (SSM)(6)	VOC	137.00	1.92
		NOx	9.13	0.45
		SO2	0.34	0.10
		CO	65.2	2.30
Q1CT	Q1 Cooling Tower	VOC	0.28	1.10
		PM	0.42	1.65
		PM10	0.27	1.05
		PM2.5	<0.01	<0.01
Q1FUG	Q1 Fugitives (5)	VOC	7.19	31.52

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Q1F01324	Mixer Feed Hopper (7)	VOC	8.50	28.29
		PM	0.01	0.01
		PM10	0.01	0.01
		PM2.5	0.01	0.01
Q1F4901	Catalyst Feeder Filter	PM	0.10	0.01
		PM10	0.10	0.01
		PM2.5	0.10	0.01
Q1R4001	Reactor Seed	PM	0.77	0.01
		PM10	0.77	0.01
		PM2.5	0.77	0.01
Q1F01310C	Silo Filter	PM	0.26	0.05
		PM10	0.26	0.05
		PM2.5	0.26	0.05
Q1D01309	Master Batch Filter	PM	0.26	0.05
		PM10	0.26	0.05
		PM2.5	0.26	0.05
Q1V01327AB	Additive Filter	PM	0.09	0.06
		PM10	0.09	0.06
		PM2.5	0.09	0.06
Q1F01352	Rail Unload Filter	PM	0.10	0.10
		PM10	0.10	0.10
		PM2.5	0.10	0.10
Q1D01426	Pellet Dryer Vent	PM	0.39	1.73
		PM10	0.39	1.73
		PM2.5	0.39	1.73
Q1F01426	Transfer Air Filter	PM	1.03	4.51
		PM10	1.03	4.51
		PM2.5	1.03	4.51
Q1F15003	Scalperator Vent Fines	PM	1.11	3.90

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		PM10	1.11	3.90
		PM2.5	1.11	3.90
Q1F15004	Scalperator Vent Fines Collectors	PM	1.11	3.90
		PM10	1.11	3.90
		PM2.5	1.11	3.90
HSFLARESYS	Q1 Flare Analyzer Vent	VOC	0.01	0.01
		NOx	0.01	0.01
		CO	0.01	0.01
Q1FEEDVB	B Powder Feed Vent PM - prefilter	PM	0.07	0.29
		PM10	0.07	0.29
		PM2.5	0.07	0.29
Q1FEEDVC	C Powder Feed Vent PM - prefilter	PM	0.07	0.29
		PM10	0.07	0.29
		PM2.5	0.07	0.29

- (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
- 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
- (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) Emissions attributable only to facilities authorized by Permit Number 19109.
- (7) VOC emissions shown at this point represent the total allowable VOC emission rates for all emission points in the process downstream of the extruder.
- (8) Routine/normal operation emission authorized to vent to the Q1 Incinerator (EPN Q1INC) are allowed to be routed to the Q1 Flare (EPN HSFLARE) for no more than 150 hours per year.

Date: July 26, 2016