Emission Sources - Maximum Allowable Emission Rates

Permit Number 127838

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)
PE3-01	Dry Catalyst Filter	PM	0.02	0.01
		PM10	0.02	0.01
		PM2.5	0.02	0.01
PE3-02A	Elutriator Cyclone A	PM	0.70	0.77
		PM10	0.01	0.01
		PM2.5	0.01	0.01
		VOC	0.16	0.18
PE3-02B	Elutriator Cyclone B	PM	0.70	0.77
		PM10	0.01	0.01
		PM2.5	0.01	0.01
		VOC	0.16	0.18
PE3-03	Powder Surge Hopper Filter	PM	0.03	0.15
		PM10	0.01	0.03
		PM2.5	0.01	0.03
		VOC	0.15	0.66
PE3-04	Powder Feeder Filter	PM	0.02	0.10
		PM10	<0.01	0.02
		PM2.5	<0.01	0.02
		VOC	0.10	0.44
PE3-05	Additive Hopper Filter	PM	0.02	0.07
		PM10	<0.01	0.01
		PM2.5	<0.01	0.01

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PE3-06	Additive Feeder Filter	PM	0.01	0.04
		PM10	<0.01	0.01
		PM2.5	<0.01	0.01
PE3-07	Pellet Dryer Cyclone	PM	0.45	1.97
		PM10	<0.01	0.02
		PM2.5	<0.01	0.02
		VOC	0.97	4.25
PE3-08A	Product Silo A Filter	PM	1.66	3.65
		PM10	0.17	0.36
		PM2.5	0.15	0.33
		VOC	0.91	1.99
PE3-08B	Product Silo B Filter	PM	1.66	3.65
		PM10	0.17	0.36
		PM2.5	0.15	0.33
		VOC	0.91	1.99
PE3-09A	Loading Cyclone A	PM	0.25	0.56
		PM10	<0.01	0.01
		PM2.5	<0.01	0.01
		VOC	0.06	0.13
PE3-09B	Loading Cyclone B	PM	0.25	0.56
		PM10	<0.01	0.01
		PM2.5	<0.01	0.01
		VOC	0.06	0.13
PE3-10	Flare	CO	58.52	4.26
		NOx	11.36	0.83
		SO2	<0.01	<0.01
		VOC	148.04	9.69
PE3-11A & PE3-11B	Thermal Oxidizers A	NOx	2.38	3.76

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		PM	0.30	0.48
		PM10	0.30	0.48
		PM2.5	0.30	0.48
		CO	3.33	5.26
		SO2	0.01	0.01
		VOC	0.93	2.30
PE3-12	PE3 Cooling Tower (5)	HOCl	<0.01	<0.01
		PM	0.33	1.43
		PM10	0.19	0.85
		PM2.5	<0.01	<0.01
		VOC	0.74	3.24
PE3-13	Fugitives (5)	Cl2	<0.01	0.02
		VOC	1.33	5.83
PE3-14	Extruder Feed Hopper Filter	PM	0.01	0.03
		PM10	<0.01	0.01
		PM2.5	<0.01	0.01
		VOC	0.03	0.15
PE3-15	Anti-block Hopper Filter	PM	0.01	<0.01
		PM10	0.01	<0.01
		PM2.5	0.01	<0.01
PE3-16	Hexene Storage Tanks	VOC	0.66	1.08
PE3-TKMSS	Hexene Storage Tanks – Uncontrolled MSS	VOC	7.15	0.27
PE3-TEMP	Temporary Control Device - MSS	VOC	20.38	0.20
PE3-MAINT	PE3 Maintenance Fugitives	VOC	79.04	0.42
		PM	11.96	0.05
		PM10	6.52	<0.01
		PM2.5	6.52	<0.01

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PE3-10 or PE3-TEMP	Flare or Temporary Control Device (PE3 MSS Contribution)	VOC	506.36	4.13
		NOX	49.04	1.10
		CO	278.85	11.99

(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
SO_2 - sulfur dioxide
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
CO - carbon monoxide
Cl_2 - chlorine
HOCl - hypochlorous acid

(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: October 21, 2016