EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18773 and PSDTX118M4

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. 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)
700	Rxn and Ethylene Purification Fugitives (5)	VOC	7.48	24.59
704	Analyzer Vent	VOC	0.22	0.96
705	Small Flare	CO	40.90	48.57
		NO_x	13.22	15.69
		VOC	40.12	47.33
707	Cycle Gas Compressor Seal and Lube Oil Vent	VOC	0.11	0.48
708	Catalyst Transfer Tank Vent Filter	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
709	Catalyst Transfer Tank Vent Filter	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
711	Catalyst Transfer Tank Vent Filter	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

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710	G-3 Reactor Sed Bed Vent	Polyethylene Dust	8.13	0.20
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
712	Catalyst Vent Filter	PM	0.04	0.01
		PM_{10}	0.04	0.01
		$PM_{2.5}$	0.04	0.01
715	Pneumatic Conveyor Vent Filter	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	0.01	<0.01
716 - 717	Additive Bin Vent Filters	PM	0.02	0.01
		PM_{10}	0.02	0.01
		$PM_{2.5}$	0.02	0.01
716FF	P3 Pelleter Preblender Receiver	Additive Dust	0.13	0.10
		PM_{10}	0.13	0.10
		$PM_{2.5}$	0.13	0.10
717FF	P3 Pelleter Antiox Receiver	Additive Dust	0.13	0.10
		PM_{10}	0.13	0.10
		$PM_{2.5}$	0.13	0.10
718	Trim Receiver Vent Filter	PM	0.03	0.03
		PM_{10}	0.03	0.03
		$PM_{2.5}$	0.03	0.03
720	Storage and Blend Bin Vent Filters and ~~Pelleting System Dust Collector~~	PM	<0.01	<0.01

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		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
721	Pelleter Dryer Exhaust	PM	0.95	3.58
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
720, 722 – 724	Storage and Blend Bin Vent Filters and Pelleting System Dust Collector	PM	0.10	0.36
		PM_{10}	0.10	0.36
		$PM_{2.5}$	0.10	0.36
		VOC	3.12	10.06
725	Pellet Loading Vent Filter	PM	0.10	0.36
		PM_{10}	0.10	0.36
		$PM_{2.5}$	0.10	0.36
246	Large Flare	CO	22.69	2.30
		NO_x	4.45	0.45
		VOC	48.78	5.51
		Ethylene	17.19	1.24
246	Large Flare Start-Up, Shutdown, and Maintenance	CO	280.63	3.65
		NO_x	55.07	0.72
		VOC	610.00	7.93
1239	Additive Hopper	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
1240	Additive Hopper	PM	0.04	0.06

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		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
1241	Additive Hopper	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
1242	Additive Hopper	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
578A	Fugitives (5)	VOC (6)	0.05	0.22
T101	Hot Oil System	VOC	<0.01	<0.01

(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
PM - particulate matter, suspended in the atmosphere, including PM_{10}
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
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(6) Propane and propylene emissions from pressure relief valves PSV-2008-62, PSV-2208-63, and associated piping.

Date: January 30, 2015