Emission Sources - Maximum Allowable Emission Rates

Permit Number 4477

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)
L3V2101	Isopar H Storage	VOC	2.95	0.04
L3V4367	Vinyl Acetate Storage	VOC	0.24	0.36
L3FUG	Fugitives (5)	VOC	11.91	52.18
L3V4351	Catalyst Feed Tank	VOC	0.01	0.03
L3V4384	Catalyst Feed Tank	VOC	0.01	0.03
L3V4385	Catalyst Feed Tank	VOC	0.01	0.03
L3V4433	Catalyst Feed Tank	VOC	0.01	0.03
L3V4429	Catalyst Mix Tank	VOC	0.01	0.03
L3V4430	Catalyst Mix Tank	VOC	0.01	0.03
L3V4431	Catalyst Mix Tank	VOC	0.01	0.03
L3V4432	Catalyst Mix Tank	VOC	0.01	0.03
L3ADMXTK	Additive Mix Tank	VOC	0.01	0.01
L3ADHDTK	Additive Hold Tank	VOC	0.46	0.01
L3RTO	Regenerative Thermal Oxidizer (RTO)	VOC	3.00	10.38
		NO_x	0.39	1.06
		CO	2.03	5.45
		SO_2	0.24	0.89
		PM	0.02	0.09
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
L3FLARE	Flare (Normal Operations)	VOC	27.70	10.21
		NOx	3.05	1.96
		CO	15.71	10.09
		SO_2	0.12	0.26
L3FLARE	Flare (MSS Emissions)	VOC	81.08	0.49
		NOx	10.78	0.06
		CO	55.55	0.33
		SO_2	0.01	0.01
L3FLARE with SB1126	Flare (Normal Operations)	VOC	39.10	11.58
		NOx	4.62	2.15
		CO	23.81	11.07
L3V3784	Hydroquinone Mix Tank	VOC	0.30	0.05
L3V4251	Wax Blowdown	VOC	1.46	0.53
L3CT	Cooling Tower (9)	VOC	1.35	5.91
		PM	0.48	2.11
		PM_{10}	0.31	1.34
		$PM_{2.5}$	0.10	0.45
L3SILOCYCL	Storage/Mix Cyclones	PM	1.80	7.43
		PM_{10}	1.80	7.43
		$PM_{2.5}$	1.80	7.43
L3SATEXT	Satellite Extruder Feed Hopper Filter	PM	0.46	0.25
		PM_{10}	0.46	0.25
		$PM_{2.5}$	0.46	0.25
L3DISCH3	Discharge Cyclone	PM	0.87	1.61
		PM_{10}	0.87	1.61

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		$PM_{2.5}$	0.87	1.61
L3SCALP3	Scaperator Cyclone	PM	1.09	2.01
		PM_{10}	1.09	2.01
		$PM_{2.5}$	1.09	2.01
L3C3219	Odd Ball Blower	PM	0.15	0.60
		PM_{10}	0.15	0.60
		$PM_{2.5}$	0.15	0.60
L3SILOS	Silos (6)	VOC	37.50	38.92
		VOC	68.75 (7) (8)	
L3V4205	Spinaway Dryer (8)	PM	0.67	-
		PM_{10}	0.67	-
		$PM_{2.5}$	0.67	-
L3BSILOS	Blending Silos (8)	PM	0.67	-
		PM_{10}	0.67	-
		$PM_{2.5}$	0.67	-
L3RTOBF	RTO Bag Filter (8)	PM	0.26	-
		PM_{10}	0.26	-
		$PM_{2.5}$	0.26	-
L3V4205, L3BSILOS, and L3RTOBF	Annual Emission Limits (8)	PM	-	0.08
		PM_{10}	-	0.08
		$PM_{2.5}$	-	0.08

Emission Sources - Maximum Allowable Emission Rates

(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
CO - carbon monoxide
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - 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
(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) Includes emissions due to residual VOC in the polymer from all vents downstream of the extruder.
(7) When one or more streams are diverted away from the RTO, production shall be curtailed such that aggregate VOC emissions from all vents downstream of the extruder, as referenced in footnote 6, do not exceed 68.75 lbs/hour. **(07/18)**
(8) Emissions from each of these emission points shall not exceed 240 hours during any rolling 12 month period.
(9) A drift eliminator shall be installed and placed in operation not later than December 31, 2016. The PM, PM_{10} and $PM_{2.5}$ emission rate limits stated above on EPN L3CT become effective on January 1, 2017.

Date: **October 12, 2018**