

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19074

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 *	
			lb/hr	TPY**
VS-65	EVOH Flare	CO	15.81	10.51
		NO _x	7.92	5.61
		VOC (4)	34.14	18.74
		Ethylene	22.22	13.58
VS-68	Extraction System Vent (Line 2)	VOC	11.42	1.00
VS-68-1	Extraction System Vent (Line 1)	VOC	11.42	1.00
VS-69	No. 1 Surge Tank Vent (Line 2)	VOC	2.16	0.01
VS-69-1	No. 1 Surge Tank Vent (Line 1)	VOC	2.16	0.01
VS-71	Pre-Fluidized Bed Dryer Bagfilter (Line 2)	PM ₁₀	0.03	0.11
		PM _{2.5}	0.02	0.07
VS-72	Fluidized Bed Dryer Bagfilter (Line 2)	PM ₁₀	0.07	0.32
		PM _{2.5}	0.05	0.21
		VOC	0.40	1.75
VS-72-1	Fluidized Bed Dryer Bagfilter (Line 1)	PM ₁₀	0.06	0.25
		VOC	0.40	1.75
VS-73	Hopper Dryer Cyclone Bagfilter (Line 2)	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
VS-73-1	Hopper Dryer Cyclone Bagfilter (Line 1)	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
VS-74	Hydrogen Peroxide Head Tank Vent	IOC	0.02	0.02

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VS-77	Extraction Water Tank Vent	VOC	0.01	0.01
VS-77-1	Extraction Water Tank Vent	VOC	0.01	0.01
VS-78	Centrate Tank Vent (Line 2)	VOC	0.01	0.01
VS-78-1	Centrate Tank Vent (Line 1)	VOC	0.01	0.01
VS-85	Product Hopper Bagfilter	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
VS-92	Aspirator Cyclone Bagfilter (Line 2)	PM ₁₀	0.01	0.01
VS-92-1	Aspirator Cyclone Bagfilter (Line 1)	PM ₁₀	0.01	0.01
VS-93	Fugitives (5)	VOC (4)	3.78	16.55
		Ethylene	1.34	5.88
VS-98	No. 1 Chemical Treatment Tank Vent (Line 2)	VOC	0.01	0.01
VS-98-1	No. 1 Chemical Treatment Tank Vent (Line 1)	VOC	0.01	0.01
VS-99	No. 2 Chemical Treatment Tank Vent (Line 2)	VOC	0.01	0.01
VS-99-1	No. 2 Chemical Treatment Tank Vent (Line 1)	VOC	0.01	0.01
VS-103	Caustic Silo Filter Vent	PM ₁₀	0.02	0.10

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VS-105	Seal Oil Tank (Line 2)	VOC	0.01	0.01
VS-105-1	Seal Oil Tank (Line 1)	VOC	0.01	0.01
VS-106	+5 Deg C Refrigerator Unit Tank Vent	VOC	2.86	0.01
VS-107	-20 Deg C Refrigerator Unit Tank Vent	VOC	0.43	0.01
VS-112	Central Vacuum System Vent	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
VS-113	Product Hopper Dust Collector Vent	PM ₁₀	0.01	0.01
VS-114	Product Recovery Vent	PM ₁₀	0.01	0.01
VS-118	Wastewater Tank Vent	VOC	0.08	0.03
VS-137	No. 1 Lubricant Tank Vent (Line 2)	VOC	0.01	0.01
VS-139	No. 2- Lubricant Tank Vent (Line 2)	VOC	0.01	0.01
VS-143	EVOH Fugitives (Line 2) (5)	VOC	5.37	0.14
VS-143-1	EVOH Fugitives (Line 1) (5)	VOC	5.37	0.14
VS-145	Stripper Bottom Filter Fugitives (Line 2) (5)	VOC	4.41	0.11
VS-145-1	Stripper Bottom Filter Fugitives (Line 1) (5)	VOC	4.41	0.11
VS-155	Add C Head Tank (Line 2)	VOC	0.01	0.01

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VS-190	Water Bath Temporary Storage - Maintenance	VOC	0.13	0.56
VS-191	Strand Forming - Maintenance	VOC	0.98	3.64
EMGEN	Emergency Generator	CO	4.73	2.07
		NO _x	20.64	9.04
		SO _x	2.78	1.22
		PM	0.60	0.26
		VOC	0.61	0.27
RTO	Regenerative Thermal Oxidizer Normal Operations	CO	4.45	19.50
		NO _x	0.81	3.55
		SO ₂	0.01	0.02
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
		H ₂ S	0.01	0.01
		VOC	1.50	6.56
RTO	Regenerative Thermal Oxidizer Maintenance, Startup, and Shutdown (MSS) Activities (6)	CO	4.45	0.27
		NO _x	0.81	0.05
		SO ₂	0.01	0.01
		PM ₁₀	0.06	0.01
		PM _{2.5}	0.06	0.01
		H ₂ S	0.01	0.01
		VOC	5.24	0.31
MGBLD	Maguire Blending	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
VS-259	Diesel Fuel Tank - Maintenance	VOC	0.01	0.01
VS-260	Diesel Fuel Tank - EMGEN	VOC	0.01	0.01
SOLCLEAN	Cold Solvent Cleaner	VOC	0.08	0.33

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COOLTOW	Cooling Tower	VOC	0.69	3.02
TRUCKLOAD	Truck Liquid Loading	VOC	0.40	0.02
ABRASIVE	Abrasive Cleaning	PM	0.57	0.21
WELDING	Maintenance Soldering	PM	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) PM₁₀ - particulate matter equal to or less than 10 microns.
PM_{2.5} - particulate matter equal to or less than 2.5microns.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
IOC -inorganic compounds, unspciated
- (4) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates.
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (6) MSS activities for the RTO shall not exceed a total of 120 hours per year.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

8,760 Hours/year.

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated: August 5, 2011