

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, 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 (5)
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-MSS	Regenerative Thermal Oxidizer Maintenance, Startup, and Shutdown (MSS) Activities (7) (8)	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
VS-65	EVOH Flare Normal Operations	CO	15.81	10.51
		NO _x	7.92	5.61
		VOC (4)	34.14	18.74
		Ethylene	22.22	9.74
VS-65	EVOH Flare Maintenance, Startup, and Shutdown (MSS) Activities – Process Clearing (8)	VOC (4)	24.67	0.20
		NO _x	1.86	0.03
		CO	3.71	0.06
		Ethylene	1.70	0.02
VS-65	EVOH Flare – Flare Downtime Breathing	VOC	2.11	0.57
VS-65	EVOH Flare MSS Activities – Tank Truck Loading (8)	VOC	1.11	0.01
		NO _x	0.08	0.01
		CO	0.16	0.01

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	Pigging (8)	NO _x	0.05	0.01
		CO	0.09	0.01
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-U	0.02	0.02
VS-74T & V-74T-1	Discharge to No. 2 Flush Solution Tanks to Gondolas (8)	VOC	0.25	1.11
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 (6)	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

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VS-103	Caustic Silo Filter Vent	PM ₁₀	0.02	0.10
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) (6)	VOC	5.37	0.14
VS-143-1	EVOH Fugitives (Line 1) (6)	VOC	5.37	0.14
VS-145	Stripper Bottom Filter Fugitives (Line 2) (6)	VOC	4.41	0.11
VS-145-1	Stripper Bottom Filter Fugitives (Line 1) (6)	VOC	4.41	0.11
VS-155	Add C Head Tank (Line 2)	VOC	0.01	0.01
VS-190	Water Bath Temporary Storage – Maintenance (8)	VOC	0.13	0.56
VS-191	Strand Forming – Maintenance (8)	VOC	0.98	3.64
VS-259	Diesel Fuel Tank - Maintenance	VOC	0.01	0.01
VS-260	Diesel Fuel Tank - EMGEN	VOC	0.01	0.01
COOLTOW	Cooling Tower	VOC	0.69	3.02
FRIG	Refrigeration System Repair (8)	VOC	1.05	0.01
MGBLD	Maguire Blending	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
ROBINS	Paste Waste Roll-Off Bins (8)	VOC	0.09	0.04
PROC-CLEAR	Process Clearing (8)	VOC (4)	16.98	1.58
		Ethylene	1.00	0.02
EMGEN	Emergency Generator	CO	4.73	2.07
		NO _x	20.64	9.04
		SO ₂	2.78	1.22
		PM	0.60	0.26
		VOC	0.61	0.27

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ABRASIVE	Abrasive Cleaning (8)	PM	0.57	0.21
SOLCLEAN	Cold Solvent Cleaner	VOC	0.08	0.33
WELDING	Maintenance Soldering (8)	PM	0.01	0.01
INSTCLEAR	Instrument Clearing (8)	VOC	14.84	1.70
INSTCYLD	Gas Cylinder (8)	VOC (4)	1.82	0.13
		Ethylene	0.73	0.05
SLDHDLG	Solids Handling (8)	PM	0.05	0.01
TRUCKLOAD	Truck Liquid Loading	VOC	0.40	0.02
TNKTRUCK	Tank Truck Loading Fugitives (6) (8)	VOC	2.93	0.02
VACTRUCK	Vacuum Truck Loading (8)	VOC	2.39	0.02
FRAC TANKS	Frac Tanks (8)	VOC	3.90	0.38

- (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
 - IOC-U - inorganic compounds (unspeciated)
 - 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
 - H₂S - hydrogen sulfide
- (4) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) MSS activities for the RTO shall not exceed a total of 120 hours per year.
- (8) Planned MSS activities.

Date: November 19, 2014