

EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS

MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 81030

This table lists the maximum allowable emission rates for all sources of air contaminants covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY (4)
Sitewide VOC Cap	Table M Sources	VOC	36.40	12.53
Sitewide PM ₁₀ Cap	Table M Sources	PM	0.59	1.49

Table M: Sources Subject to VOC and PM Caps (5) Note: AA- Acrylic Adhesives, GI-Gravure Ink, BI-Back Coating Ink, RDQA-RD and QA, BT-Bulk Tanks					
EPN	Emission Point Description	Source Name/ FINs	Facility Description	Pollutant	Processes (6)
ST-1101	Tank Roof Vent	MT-1	Monomer Day Tank	VOC	AA
ST-1102	Tank Roof Vent	MT-2	Monomer Day Tank	VOC	AA
ST-1103	Tank Roof Vent	MT-3	Monomer Day Tank	VOC	AA
ST-1104	Tank Roof Vent	MT-4	Monomer Day Tank	VOC	AA
ST-1105	Tank Roof Vent	MT-5	Monomer Day Tank	VOC	AA
ST-1107	Tank Roof Vent	MT-7	Monomer Day Tank	VOC	AA
ST-1108	Tank Roof Vent	MT-8	Monomer Day Tank	VOC	AA
VP--1101	VP Roof Vent	RV, DV	Vacuum Pump	VOC	AA
ST-1202	Tank Roof Vent	CT-1	Catalyst Day Tank	VOC	AA
ST-1204	Tank Roof Vent	CT-2	Catalyst Day Tank	VOC	AA
ST-1205	Tank Roof Vent	CT-5	Catalyst Day Tank	VOC	AA
ST-9131	Tank System Vent	All MT and CT FINs	All Monomer and Catalyst Day Tanks	VOC	AA
EFAA	Acrylic Adhesive Ventilation Vents	Equip Leak Fug	Equipment Leak Fugitive Emissions	VOC	AA
		AA Fugitives	Products Unloading, Filter replacement	VOC	AA
			PM from particulate emissions	PM	AA
EX-0905	Exhaust System Vent	PTGI, LTGI, and PFGI	Primary Tanks (TPGI), Adjustment Tanks(LT), and Product Filling (PTGI)	VOC	GI
DC-0902	Dust Collector Vent	PTGI, LTGI, and PFGI	Primary Tanks (TPGI), Adjustment Tanks(LT), and Product Filling (PTGI)	VOC	GI
				PM	GI
EFGI	Roof Vents	PTGI, LTGI, and PFGI	Primary Tanks (TPGI), Adjustment Tanks(LT), and Product Filling (PTGI), 5% of these source	VOC	GI

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Emission Point No. (1)	Source Name (2)		Air Contaminant Name (3)	<u>Emission Rates</u>	
				lb/hr	TPY (4)
			emissions are assumed fugitive within the building		
		Equip Leak Fug	Equipment Leak Fugitive Emissions	VOC	GI
EFBI	Roof Vents	PTBI, LTBI, and PFBI	Primary Tank(PT) and Adjustment (LT) Back Coating Ink Line and Products Unloading (PFBI)	VOC	BI
				PM ₁₀	BI
		Equip Leak Fug	Equipment Leak Fugitive Emissions	VOC	BI
RDQA FUG	R&D and QA Roof Vent	RDB	Research and Development and Quality Assurance Lab Building	VOC	RDQA
ST-9101	Tank Vent	ST-9101	Ethylene acetate bulk fixed roof storage tank	VOC	BT
ST-9102	Tank Vent	ST-9102	n-butyl acrylate bulk fixed roof storage tank	VOC	BT
ST-9103	Tank Vent	ST-9103	2-Ethyl Hexyl Acrylate bulk fixed roof storage tank	VOC	BT
ST-9104	Tank Vent	ST-9104	Toluene bulk fixed roof storage tank	VOC	BT
FUG1	Storage Tank Equipment Fugitives	FUG1	Equipment Leak Fugitive Emissions	VOC	BT

The following sources with individual emissions limits that are not part of the VOC or PM emissions Cap

Combustion Sources. Emissions due to fuel combustion only:

B-1	Boiler (7)	VOC	0.01	0.05
		PM ₁₀	0.02	0.07
		NO _x	0.22	0.94
		CO	0.18	0.79
		SO ₂	<0.01	0.01
EGEN	Emergency Generator (8)	VOC	1.32	0.33
		PM ₁₀	1.17	0.29
		NO _x	16.52	4.13
		CO	3.56	0.89
		SO ₂	1.09	0.27

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FIREPMP	Fire Pump (8)	VOC	1.32	0.33
		PM ₁₀	1.17	0.29
		NO _x	16.52	4.13
		CO	3.56	0.89
		SO ₂	1.09	0.27
All	All	All HAPs	8.91	3.30
		Individual HAP	8.81	2.38

- (1) Emission point identification.
- (2) Specific point source names, also known as a facility identification number, or FIN.

- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1).
- PM - particulate matter, suspended in the atmosphere, including PM₁₀.
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- HAP - hazardous air pollutant(s) as defined in the Federal Clean Air Act § 112.
- Exempt Solvent - as defined in 30 TAC § 101.1(31).

- (4) Compliance with annual emission limits is based on a rolling 12-month basis.
- (5) Only those sources listed in Table M are subject to the emissions caps for VOC and PM. See Special Condition No. 11 for a matrix showing modeling emission points and emissions points.
- (6) Process refers to the major process lines/areas as listed in the permit application dated February 5, 2007, as amended and supplemented as of the date of initial permit issuance.
- (7) Limited to firing pipeline quality sweet natural gas only.

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- (8) Limited to storing diesel fuel that complies with the requirements of low emissions diesel as specified in 30 TAC Chapter 114, Subchapter H, Division 2.
- (9) Compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

Dated October 25, 2007