

Emission Sources - Maximum Allowable Emission Rates

Permit Number 115295

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)
07BLR_001 07BLR_002	Steam Boilers 001 and 002	VOC	0.39	0.81
		NO _x	4.38	9.04
		CO	5.39	5.57
		SO ₂	1.02	2.11
		PM	0.54	1.12
		PM ₁₀	0.54	1.12
		PM _{2.5}	0.54	1.12
		H ₂ SO ₄	0.08	0.16
07VCS_001	Vent Collection System (6)	VOC	(6)	13.30
		NO _x	(6)	11.18
		CO	(6)	25.30
		SO ₂	(6)	0.13
		PM	(6)	0.01
		PM ₁₀	(6)	0.01
		PM _{2.5}	(6)	0.01
07TOX_001 07TOX_002	Flameless Thermal Oxidizer System (6)	VOC	2.12	(6)
		NO _x	14.29	(6)
		CO	52.20	(6)
		SO ₂	1.77	(6)
		PM	0.03	(6)
		PM ₁₀	0.03	(6)
		PM _{2.5}	0.03	(6)

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07FLR_001	Elevated Flare (6)	VOC	404.71	(6)
		NO _x	78.08	(6)
		CO	310.95	(6)
		SO ₂	1.85	(6)
07FLR_002	Multi-point Ground Flare (6)	VOC	414.85	(6)
		NO _x	278.65	(6)
		CO	426.17	(6)
		SO ₂	0.02	(6)
07TOX_003	Regenerative Thermal Oxidizer	VOC	0.53	1.16
		NO _x	0.14	0.55
		CO	0.19	0.76
		SO ₂	0.03	0.12
		PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
07VNT_002	Miscellaneous Additive, Catalyst, and PE Vents (7)	VOC	26.13	8.06
		PM	0.81	1.55
		PM ₁₀	0.79	1.46
		PM _{2.5}	0.79	1.46
07VNT_001	Analyzer Catalytic Oxidizers	VOC	<0.01	0.02
07CTL_001	Cooling Tower	VOC	5.26	2.30
		PM	0.33	1.44
		PM ₁₀	0.18	0.80
		PM _{2.5}	<0.01	0.01
07FUG_001	Fugitives (5)	VOC	1.73	7.59
07MSS_001	Planned MSS	VOC	113.25	3.68
		NO _x	0.07	<0.01
		CO	0.07	<0.01

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		PM	2.38	0.04
		PM ₁₀	0.54	0.02
		PM _{2.5}	0.54	0.02

- (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
- SO₂ - sulfur dioxide
- H₂SO₄ - sulfuric acid
- 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
- (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) The Vent Collection System (EPN: 07VCS_001) contains annual emissions from the FTO System, Elevated Flare, and Multi-Point Ground Flare (EPNs 07TOX_001/002, 07FLR_001, and 07FLR_002). Source specific hourly emissions are listed under the individual EPNs.
- (7) Miscellaneous Additive, Catalyst, and PE Vents (EPN: 07VNT_002) includes residual VOC and PM/PM10/PM2.5 emissions from the Granular Product Sources, Pellet Loadout Sources, Polyethylene Product Sources, Additive Sources, Catalyst Transfer Sources, and Pellet Finishing Building.

Date: June 17, 2015