

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 6105

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)
111ANALYZE	Analyzer Vents	VOC	0.25	1.08
		CO	1.12	4.93
111F	SFA Unit Equipment Fugitives (5)	VOC	4.08	17.88
		CO	0.43	1.88
111F	Product Swaps, Maintenance, Start-up, and Shutdown	VOC	56.27	0.43
		CO	0.87	0.01
111HOOP	Reactor Vent	VOC	12.09	4.53
111LOAD	Unit Loading/Unloading	VOC	4.10	0.50
111V1003	Storage Tank V-1003	VOC	1.18	0.02
111V1004	Storage Tank V-1004	VOC	0.01	0.01
111V1005	Storage Tank V-1005	VOC	6.58	0.19
111V1012	Storage Tank V-1012	VOC	6.99	1.17
111V1013	Storage Tank V-1013	VOC	7.22	1.18
111V1023	Storage Tank V-1023	VOC	6.93	1.29
111V1035	Storage Tank V-1035	VOC	5.44	2.74
111V1037	Storage Tank V-1037	VOC	2.65	0.04
111V1040	Storage Tank V-1040	VOC	8.73	0.03
111V185	Storage Tank V-185	VOC	6.93	2.81
111V272	Storage Tank V-272	VOC	6.93	2.81
111V505	Storage Tank V-505	VOC	11.49	5.80
111V649	Storage Tank V-649	VOC	6.93	2.81
111V827	Storage Tank V-827	VOC	2.70	0.52
251AV1029	Storage Tank V-1029	VOC	0.65	1.99
251AV1030	Storage Tank V-1030	VOC	0.65	1.99
251AV1033	Storage Tank V-1033	VOC	0.67	2.32

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251BV506	Storage Tank V-506	VOC	1.72	0.26
251BV507	Storage Tank V-507	VOC	2.70	0.43
251BV515	Storage Tank V-515	VOC	2.99	0.22
251BV520	Storage Tank V-520	VOC	1.72	0.14
251BV521	Storage Tank V-521	VOC	2.04	0.16
251CV1031	Storage Tank V-1031	VOC	5.44	2.45
251CV1032	Storage Tank V-1032	VOC	5.44	2.45
251UNLOAD	Unit Loading/Unloading	VOC	13.14	1.28
302M331, 302M460 302M3069 302M3077	Boilers 5, 6, 8, and 9 Combined Emission Limit (6)	VOC	0.43	1.84
303M1239	Ethylene Flare (7)	VOC	4.63	0.98
306ABLDG1	POx Analyzers	CO	0.42	1.85
306F	Fugitives (5)	VOC	0.17	0.75
		CO	1.17	5.14
306M2107	POx Flare	CO	1376.12	120.81
		NO <sub>x</sub>	35.48	4.01
		SO <sub>2</sub>	0.26	0.02
		VOC	0.02	0.10
306V958	Tank V-958	VOC	0.65	0.01
306V960	Tank V-960	VOC	0.06	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) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (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) Emissions of NO<sub>x</sub>, CO, SO<sub>2</sub> and PM are authorized under Permit No. 2175.
- (7) Emissions of NO<sub>x</sub>, CO, and SO<sub>2</sub> are authorized under Permit No. 2175.

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Date: September 19, 2019