

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 141533 and PSDTX1017M1

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)
Normal Operations Emission Cap (9)	Fugitives (5), Storage Tanks, and Wastewater	Benzene	1.91	4.36
Normal Operations Emission Cap (9)	Fugitives (5), Storage Tanks, and Wastewater	H ₂ S	0.14	0.32
S-031, S-032, S-034, S-035, S-037, S-038, S- 040, S-041, S-042, S- 043, S-100, S-101, S- 102, S-108, S-114, S- 115, S-116, S-127, S- 128, S-129, S-200, S- 201, S-206, S-207, S- 208, S-209, S-210, S- 217, S-218, S-219, S- 300, S-301, S-302, S- 303, S-304, S-305, S- 306, S-308, S-309, S- 310, S-311, S-312, S- 313, S-314, S-315, S- 317, S-318, S-331, S- 332, S-333, S-334, S- 335, S-337, S-338, S- 339, S-340, S-354, S- 401, S-402, S-3201, S- 3202	Subcaps for Storage Tanks	VOC	71.16	116.92
V-F-660N, V-F-680W V-F-800E, V-F-800W, V- F-820, V-F-830E, V-F- 830N, V-F-830S, V-F- 830W, V-F-850, V-F- 850N, V-F-850S, V-F- 2600N, V-F-ROSE	VOC and NH ₃ Subcap for Equipment Fugitives (5)	VOC	6.82	29.71
		NH ₃	<0.01	<0.01
S-311 (10)	Storage Tank 311	VOC	1.24	1.53

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S-201 (11)	S-201	VOC	0.06	0.08
		NO _x	0.28	1.05
		CO	0.39	1.44
		PM	0.04	0.14
		PM ₁₀	0.04	0.14
		PM _{2.5}	0.04	0.14
		SO ₂	0.01	0.01
S-336	S-336	VOC	0.93	0.79
Planned Maintenance, Startup, and Shutdown (MSS) Emission Limitations (7)				
Control devices, Fugitives (5) and Storage Tanks		VOC	4,573.82	24.34
		NO _x	51.22	1.37
		CO	31.11	0.83
		SO ₂	6.66	0.50
		PM	3.14	0.08
		PM ₁₀	3.14	0.08
		PM _{2.5}	3.14	0.08
		H ₂ S (6)	0.30	0.01
		Benzene (6) (8)	83.71	0.25

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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
 - CO - carbon monoxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - H₂S - hydrogen sulfide
 - NH₃ - ammonia

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- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (6) Planned MSS H₂S and Benzene allowable emissions are NOT included in the Normal Operations Emission Caps.
- (7) MSS emissions shall be based on a rolling 12-month period.
- (8) Benzene MSS allowables are included in the VOC allowables.
- (9) These emission caps have been carried forward from the flexible permit and do not include MSS emissions. The caps have been lowered to equal the sum of the normal operation individual limits and subcaps.
- (10) EPN S-311 is subjected to the *Subcap for Storage Tanks*. **(12/18)**
- (11) EPN S-201 stores crude oil during tank S-200 turnaround. The operating service is not subject to the *Subcap for Storage Tanks* and includes emissions from the portable control devices. **(12/18)**

Dated: December 21, 2018