

Emission Sources - Maximum Allowable Emission Rates

Permit Number 22065 and PSDTX819

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)
ENG-2	Cooper-Bessemer GMVH-10-C2 2,250 hp	NO _x	9.92	43.45
		CO	12.40	54.32
		VOC	4.96	21.73
		PM ₁₀	0.17	0.76
		SO ₂	0.01	0.05
ENG-35	Waukesha L7042 GSIU 1,000 hp	NO _x	11.02	48.26
		CO	2.21	9.66
		VOC	2.21	9.66
		PM ₁₀	0.19	0.85
		SO ₂	0.01	0.03
CWT	Cooling Tower	VOC	0.10	0.44
		PM ₁₀	2.66	11.65
FUG-2 (5)	Existing Fugitives	VOC	1.67	7.30
		H ₂ S	<0.01	0.001
Standard Permit (SP) sources incorporated by reference. Sources remain authorized by the SP(s) as listed below:				
Standard Permit Number 71491				
42-R	Main Site Flare - Acid Gas Flare	NO _x	1.86	8.13
		CO	15.92	69.71
		VOC	0.25	1.11
		SO ₂	26.67	116.83

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DGA-RBLR-A	Amine Reboiler A 4.0 MMBtu/hr	NO _x	0.40	1.75
		CO	0.34	1.47
		VOC	0.02	0.10
		PM ₁₀	0.03	0.13
		SO ₂	0.002	0.01
DGA-RBLR-B	Amine Reboiler B 4.0 MMBtu/hr	NO _x	0.40	1.75
		CO	0.34	1.47
		VOC	0.02	0.10
		PM ₁₀	0.03	0.13
		SO ₂	0.002	0.01
SC-TANK	Slug Catcher, Pressurized Tank	VOC	0.01	0.01
FUG-3 (5)	New Facilities Fugitives	VOC	0.16	0.68
DGA-RCLR	Amine Reclaimer 1.0 MMBtu/hr	NO _x	0.10	0.44
		CO	0.08	0.37
		VOC	0.001	0.02
		SO ₂	0.0006	0.0026
		H ₂ S	0.0076	0.03
Permit Exemptions sources incorporated by reference. Sources remain authorized by the Permit Exemptions as listed below:				
Permit Exemption Number X-20647				
ENG-11	Cooper-Bessemer GNVA 1,350 hp	NO _x	44.6	195.5
		CO	14.9	65.2
		VOC	4.5	19.6
		PM ₁₀	0.13	0.56
		SO ₂	0.01	0.04
Permit Exemption Number X-19686				

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ENG-14	Cooper-Bessemer GNVA 1,350 hp	NO _x	44.6	195.5
		CO	14.9	65.2
		VOC	4.5	19.6
		PM ₁₀	0.12	0.53
		SO ₂	0.01	0.03
Permit Exemption Number X-31304				
GRV-1	Glycol Still Vent	VOC	<0.01	0.01
GRV-2	Glycol Reboiler	NO _x	0.04	0.18
		CO	0.01	0.04
		VOC	<0.01	0.01
Permit Exemption Number X-20751				
ENG-36	Waukesha L7042 GSIU 1,232 hp	NO _x	13.57	59.44
		CO	16.28	71.31
		VOC	2.71	11.87
		PM ₁₀	0.13	0.55
		SO ₂	0.18	0.80
Permit Exemption Number X-21327				
ENG-37	Solar Saturn T-4900 4,900 hp	NO _x	30.84	122.91
		CO	14.24	56.73
		VOC	5.93	23.64
		PM ₁₀	0.69	3.02
		SO ₂	0.15	0.67
Permit Exemption Number X-29508				
ENG-38A	Solar Centaur T-4702 3,801 hp	NO _x	25.89	106.81
		CO	4.78	19.82

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		VOC	2.73	11.27
		PM ₁₀	0.06	0.24
		SO ₂	0.01	0.03
ENG-41	Cummins NTA-855/G2 Emergency Generator 465 hp	NO _x	9.09	3.98
		CO	1.23	0.54
		VOC	1.03	0.45
		PM ₁₀	0.31	0.13
		SO ₂	0.63	0.28
BOILER-39	Steam Boiler 21 MMBtu/hr	NO _x	2.10	9.20
		CO	1.76	7.73
		VOC	0.12	0.51
		PM ₁₀	0.16	0.70
		SO ₂	0.01	0.06
VENT-8	Methanol Storage Tank 196 bbl	VOC	0.04	0.18
HEATER-40	Standby Regen Heater	NO _x	0.65	2.85
		CO	0.55	2.39
		VOC	0.04	0.16
		PM ₁₀	0.05	0.22
		SO ₂	<0.01	0.02
FIRE-1	Fire Water Pump Engine	NO _x	6.98	3.06
		CO	1.50	0.66
		VOC	0.57	0.25
		PM ₁₀	0.49	0.22
		SO ₂	0.46	0.20
FIRE-2	Fire Water Pump Engine	NO _x	6.51	2.85

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		CO	1.40	0.61
		VOC	0.53	0.23
		PM ₁₀	0.46	0.20
		SO ₂	0.43	0.19
TANK-6	Gasoline Storage Tank	VOC	0.24	1.04
TL-1	Truck Loadout (emergency use)	VOC	-	0.31
TL-2	Gasoline Vehicle Loadout	VOC	2.14	0.72
Permit Exemption Number X-24926				
AMINE-TK1	Amine Storage Tank	VOC	0.14	0.59
Permit Exemption Number X-24570 & 23072				
PLR-1	LPG Loading Rack	VOC	0.91	3.98
Permit Exemption Number X-24570 & 22968				
CF1	Coalescing Filter	VOC	0.18	0.80

- (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
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 CO - carbon monoxide
 H₂S - hydrogen sulfide
- (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.

Date: _____