

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 22065 and PSD-TX-819

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. 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 *	
			lb/hr	TPY
CWT	Cooling Tower	VOC	0.10	0.44
		PM ₁₀ 2.66	11.65	
FUG-2	Existing Fugitives	VOC	1.67	7.30
		H ₂ S <0.01	0.001	
ENG-2	2,250-HP Cooper-Bessemer GMVH-10-C2	NO _x	9.92	43.45
		CO	12.40	54.32
		VOC 4.96	21.73	
		SO ₂ 0.01	0.05	
		PM ₁₀ 0.17	0.76	
ENG-35	1,000-HP Waukesha L7042 GSIU	NO _x		11.02
		48.26		
		CO 2.21	9.66	
		VOC 2.21	9.66	
		SO ₂ 0.01	0.03	
		PM ₁₀ 0.19	0.85	
ENG-8	1,478 Waukesha L7042 GSIU Inlet Compression	NO _x	4.89	21.41
		CO	6.52	28.54
		VOC 1.96	8.56	
		SO ₂ 0.007	0.03	
		PM ₁₀ 0.22	0.98	
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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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
DGA-RBLR-A	4 MMBtu/hr Amine Reboiler A	NO _x	0.40	1.75
		CO	0.34	1.47
		VOC	0.02	0.10
		SO ₂	0.002	0.01
		PM ₁₀	0.03	0.13
DGA-RBLR-B	4 MMBtu/hr Amine Reboiler B	NO _x	0.40	1.75
		CO	0.34	1.47
		VOC	0.02	0.10
		SO ₂	0.002	0.01
		PM ₁₀	0.03	0.13
SC-TANK	Slug Catcher, Pressurized Tank	VOC	0.01	0.01
FUG-3	New Facilities Fugitives	VOC	0.16	0.68
DGA-RCLR	1.0 MMBtu/hr Amine Reclaimer	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
ENG-11	Authorized Under Permit Exemption X-20647			
	1,350-HP Cooper-Bessemer GMVA-10	NO _x	44.6	195.5
		CO	14.9	65.2
		VOC	4.5	19.6
		SO ₂	0.01	0.04
		PM ₁₀	0.13	0.56
ENG-14	Authorized Under Permit Exemption X-19686			
	1,350-HP Cooper-Bessemer GMVA-10	NO _x	44.6	195.5
		CO	14.9	65.2
		VOC	4.5	19.6
		SO ₂	0.01	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		PM ₁₀ 0.12	0.53	
	Authorized Under Permit Exemption X-31304			
ENG-34	750-HP Waukesha L7042 GSI	NO _x	1.65	7.24
		CO 1.65	7.24	
		VOC 0.05	0.22	
		SO ₂ 0.09	0.41	
		PM ₁₀ 0.06	0.28	
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	
		PM ₁₀ <0.01	0.02	
	Authorized Under Permit Exemption X-20751			
ENG-36	1,232-HP Waukesha L7042 GSIU	NO _x		13.57
		59.44		
		CO 16.28	71.31	
		VOC 2.71	11.87	
		SO ₂ 0.18	0.80	
		PM ₁₀ 0.13	0.55	
	Authorized Under Permit Exemption X-21327			
ENG-37	4,900-HP Solar Saturn T-4900	NO _x	30.84	122.91
		CO 14.24	56.73	
		VOC 5.93	23.64	
		SO ₂ 0.15	0.67	
		PM ₁₀ 0.69	3.02	
	Authorized Under Permit Exemption X-29508			
ENG-38A	3,801-HP Solar Centaur T-4702	NO _x	25.89	106.81
		CO 4.78	19.82	
		VOC 2.73	11.27	
		SO ₂ 0.01	0.03	
		PM ₁₀ 0.06	0.24	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
ENG-41	465-HP Cummins NTA-855/G2 Emergency Generator	NO _x	9.09	3.98
		CO	1.23	0.54
		VOC	1.03	0.45
		SO ₂	0.63	0.28
		PM ₁₀	0.31	0.13
BOILER-39	Steam Boiler 21 MMBtu/hr	NO _x	2.10	9.20
		CO	1.76	7.73
		VOC	0.12	0.51
		SO ₂	0.01	0.06
		PM ₁₀	0.16	0.70
VENT-8	196 bbl Methanol Storage Tank	VOC	0.04	0.18
TANK-1	210 bbl Condensate Storage Tank	VOC	0.34	1.51
TANK-2	210 bbl Condensate Storage Tank	VOC	0.34	1.51
TANK-5	400 bbl Skim Tank	VOC	0.37	1.61
HEATER-40	Standby Regen Heater	NO _x	0.65	2.85
		CO	0.55	2.39
		VOC	0.04	0.16
		SO ₂	<0.01	0.02
		PM ₁₀	0.05	0.22
HT-43	Heater Treater	NO _x	0.05	0.22
		CO	0.04	0.18
		VOC	<0.01	0.01
		SO ₂	<0.01	<0.01
		PM ₁₀	<0.01	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
FIRE-1	Fire Water Pump Engine	NO _x	6.98	3.06
		CO	1.50	0.66
		VOC	0.57	0.25
		SO ₂	0.46	0.20
		PM ₁₀	0.49	0.22
FIRE-2	Fire Water Pump Engine	NO _x	6.51	2.85
		CO	1.40	0.61
		VOC	0.53	0.23
		SO ₂	0.43	0.19
		PM ₁₀	0.46	0.20
VENT-1	515 bbl Slop Oil Storage Tank	VOC	0.93	4.07
TANK-6	70 bbl 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
Authorized Under Permit Exemption X-24926				
AMINE-TK1	Amine Storage Tank	VOC	0.14	0.59
Authorized Under Standard Exemption 66 (Unregistered)				
TANK-3	Produced Water Storage Tank	VOC	<0.01	<0.01
TANK-4	Produced Water Storage Tank	VOC	<0.01	<0.01
Authorized Under Permit Exemption X-24570 and X-23072				
PLR-1	LPG Loading Rack	VOC	0.91	3.98
Authorized Under Permit Exemption X-22968				
CF1	Coalescing Filter	VOC	0.18	0.80

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
 - (2) Specific point source names. For fugitive sources use area name or fugitive source name.
 - (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
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 particulate matter greater than 10 microns is emitted.
H₂S - hydrogen sulfide
 - (4) Fugitive emissions are an estimate only.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day__Days/week__Weeks/year__or Hrs/year 8,760

Dated August 29, 2007