

Emission Sources - Maximum Allowable Emission Rates

Permit Number 6113

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)
FUG-1	Equipment Fugitives (5)	VOC	24.86	108.91
L-2	Truck Loading Losses (5)	VOC	10.02	12.37
FL-1	Flare (Loading Rack Control)	NOx	1.28	2.36
		CO	6.50	12.01
		SO ₂	0.01	0.04
		VOC	15.02	18.34
FL-2	Plant Flare	NOx	4.95	1.54
		CO	35.73	11.15
		SO ₂	1.66	0.26
		VOC	68.00	21.22
H-501	Crude Heater 44-MMBtu/hr	NOx	2.02	8.87
		CO	2.20	9.64
		PM ₁₀	0.33	1.44
		SO ₂	0.23	0.61
		VOC	0.24	1.04
AAU	AAU Heater	NOx	0.83	3.63
		CO	0.90	3.94
		PM ₁₀	0.13	0.59
		SO ₂	0.10	0.26

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		VOC	0.10	0.43
L-3	4-Oil Loading	VOC	0.05	0.07
RL-1	Railcar Loading	VOC	23.51	0.94
F-11	F-11 Heater	NO _x	3.07	13.46
		CO	1.92	8.41
		PM ₁₀	0.29	1.25
		SO ₂	0.20	0.87
		VOC	0.21	0.91
F-12	F-12 Heater	NO _x	2.35	10.3
		CO	1.47	6.44
		PM ₁₀	0.22	0.96
		SO ₂	0.15	0.67
		VOC	0.16	0.69
F-13	F-13 Heater	NO _x	1.02	4.49
		CO	0.64	2.80
		PM ₁₀	0.10	0.42
		SO ₂	0.07	0.29
		VOC	0.07	0.30
F-31	F-31 Heater	NO _x	0.94	4.13
		CO	0.59	2.58
		PM ₁₀	0.09	0.39
		SO ₂	0.06	0.27
		VOC	0.06	0.28
API-1	API Separator	VOC	0.07	0.23

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B-901	Boiler 901	NOx	0.68	2.98
		CO	0.57	2.50
		PM ₁₀	0.22	0.22
		VOC	0.04	0.18
CT-1	Cooling Tower	VOC	1.62	7.10
		PM ₁₀	0.77	3.37
D-1	Tank D-1	VOC	0.11	0.01
T-900-1	Pressurized Tank 900-1	VOC	0.00	0.00
T-900-2	Pressurized Tank 900-2	VOC	0.00	0.00
T-903	Tank 903	H ₂ O	0.00	0.00
T-904	Tank 904	H ₂ O	0.00	0.00
T-113	Tank 113	VOC	0.17	0.01
T-116	Tank 116	VOC	1.13	0.03
T-119	Tank 119	VOC	0.59	0.01
T-120	Tank 120	VOC	0.59	0.01
T-122	Tank 122	VOC	1.98	0.32
T-124	Tank 124	VOC	0.89	0.09
T-125	Tank 125	VOC	0.06	0.11
T-126	Tank 126	VOC	0.06	0.11
T-214	Tank 214	VOC	1.66	0.11
T-303	Tank 303	VOC	0.11	0.28
T-304	Tank 304	VOC	0.10	0.29
T-305	Tank 305	VOC	0.15	0.25
T-306	Tank 306	VOC	0.01	0.03
T-307	Tank 307	VOC	0.02	0.02

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T-308	Tank 308	VOC	0.02	0.02
T-311	Tank 311	VOC	0.15	0.01
T-314	Tank 314	VOC	0.66	0.05
T-316	Tank 316	VOC	0.05	0.08
T-318	Tank 318	VOC	0.03	0.01
T-319	Tank 319	VOC	0.09	0.05
T-321	Tank 321	VOC	0.01	0.01
T-332	Tank 332	VOC	0.02	0.02
T-401	Tank 401	VOC	1.11	2.63
T-404	Tank 404	VOC	1.04	2.54
T-406	Tank 406	VOC	1.04	1.59
T-408	Tank 408	VOC	1.76	3.16
T-409	Tank 409	VOC	1.74	0.27
T-410	Tank 410	VOC	1.74	0.27
T-411	Tank 411	VOC	1.74	0.27
T-412	Tank 412	VOC	1.62	0.62
T-422	Tank 422	VOC	0.19	0.05
T-423	Tank 423	VOC	0.19	0.05
T-424	Tank 424	VOC	0.44	0.11
T-425	Tank 425	VOC	0.44	0.11
T-427	Tank 427	VOC	1.15	0.18
T-428	Tank 428	VOC	0.33	0.21
T-429	Tank 429	VOC	0.33	0.21
T-430	Tank 430	VOC	0.33	0.21
T-431	Tank 431	VOC	0.75	0.07

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T-432	Tank 432	VOC	0.75	0.07
T-433	Tank 433	VOC	0.75	0.07
T-434	Tank 434	VOC	1.14	0.08
T-750	Tank 750	VOC	0.01	0.01
T-96	Tank 96	VOC	1.41	0.29
T-97	Tank 97	VOC	0.94	0.29
T-900TK02	Tank 900TK02	VOC	1.17	0.04
T-900TK03	Tank 900TK03	VOC	1.17	0.04
T-333	Tank 333	VOC	3.59	0.63
T-334	Tank 334	VOC	0.06	0.23
T-335	Tank 335	VOC	0.01	0.01
T-336	Tank 336	VOC	0.05	0.09
T-D-2	Tank D-2	VOC	0.78	0.01
FDP	Fire Diesel Pump	NO _x	2.48	1.09
		CO	0.53	0.23
		PM ₁₀	0.18	0.08
		SO ₂	0.16	0.07
		VOC	0.20	0.09

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			Lbs/hr	TPY (4)
900-B-4	Steam Boiler (with Fuel Gas)(6)	NO _x	1.95	
		CO	3.90	
		PM	0.97	

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		SO ₂	0.33	
		VOC	0.71	
900-B-4	Steam Boiler (with LPG-NG)(6)	NO _x	2.34	
		CO	4.81	
		PM	0.40	
		SO ₂	0.06	
		VOC	0.38	
900-B-4	Steam Boiler (6)	NO _x		10.25
		CO		21.07
		PM		4.27
		SO ₂		1.42
		VOC		3.09
H-502	Auxiliary Crude Heater	NO _x	0.60	2.63
		CO	0.38	1.66
		PM	0.15	0.65
		SO ₂	0.51	1.10
		VOC	0.11	0.49
T-215	Tank 215	VOC	0.29	0.57
T-216	Tank 216	VOC	0.29	0.57
T-217	Tank 217	VOC	0.29	0.71
T-218	Tank 218	VOC	0.09	0.24
T-219	Tank 219	VOC	0.22	0.64
T-220	Tank 220	VOC	0.22	0.64

(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

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NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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

LPG-NG - liquid natural gas and natural gas

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (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) Boiler EPN 900-B-4 is listed three times for the purposes of allowing two different types of fuel to be used, fuel gas and/or liquid petroleum gas-natural gas and has different hourly emission rates. The annual emission rates are cumulative.

Date: September 23, 2013