

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 20660 and PSDTX795M2

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.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
1	Cooper-Bessemer Engine Model GMVH-12 2,400-hp	NO <sub>x</sub>	10.57	46.31
		CO	10.57	46.31
		VOC	2.52	11.04
		SO <sub>2</sub>	0.01	0.06
		PM	1.01	4.44
		PM <sub>10</sub>	1.01	4.44
		PM <sub>2.5</sub>	1.01	4.44
2	Clark Engine Model TLAB-6 2,000-hp	NO <sub>x</sub>	70.55	309.00
		CO	7.50	32.83
		VOC	2.12	9.28
		SO <sub>2</sub>	0.01	0.05
		PM	0.85	3.73
		PM <sub>10</sub>	0.85	3.73
		PM <sub>2.5</sub>	0.85	3.73
3	Clark Engine Model TLAB-6 2,000-hp	NO <sub>x</sub>	70.55	309.00
		CO	7.50	32.83
		VOC	2.12	9.28
		SO <sub>2</sub>	0.01	0.05
		PM	0.85	3.73
		PM <sub>10</sub>	0.85	3.73
		PM <sub>2.5</sub>	0.85	3.73

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6	Hot Oil Heater 17 MMBtu/hr	NO <sub>x</sub>	1.68	7.36
		CO	1.41	6.18
		VOC	0.09	0.40
		SO <sub>2</sub>	0.01	0.04
		PM	0.13	0.56
		PM <sub>10</sub>	0.13	0.56
		PM <sub>2.5</sub>	0.13	0.56
11	Glycol Reboiler 9.3 MMBtu/hr	NO <sub>x</sub>	0.91	4.00
		CO	0.77	3.36
		VOC	0.05	0.22
		SO <sub>2</sub>	<0.01	0.02
		PM	0.07	0.30
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
14	Glycol Still Vent	VOC	6.00	20.00
		Benzene	0.25	0.70
21	Cooper-Bessemer Engine Model GMVH-12C2 2,700-hp	NO <sub>x</sub>	11.89	52.10
		CO	11.89	52.10
		VOC	2.40	10.51
		SO <sub>2</sub>	0.01	0.04
		PM	0.97	4.23
		PM <sub>10</sub>	0.97	4.23
		PM <sub>2.5</sub>	0.97	4.23

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22	Cooper-Bessemer Engine Model GMVH-12C2 2,700-hp	NO <sub>x</sub>	11.89	52.10
		CO	11.89	52.10
		VOC	2.40	10.51
		SO <sub>2</sub>	0.01	0.04
		PM	0.97	4.23
		PM <sub>10</sub>	0.97	4.23
		PM <sub>2.5</sub>	0.97	4.23
23	Cooper-Bessemer Engine Model GMVH-12C2 2,700-hp	NO <sub>x</sub>	11.89	52.10
		CO	11.89	52.10
		VOC	2.40	10.51
		SO <sub>2</sub>	0.01	0.04
		PM	0.97	4.23
		PM <sub>10</sub>	0.97	4.23
		PM <sub>2.5</sub>	0.97	4.23
26	Hot Oil Heater 39 MMBtu/hr	NO <sub>x</sub>	2.34	10.25
		CO	3.21	14.07
		VOC	0.21	0.92
		SO <sub>2</sub>	0.02	0.1
		PM	0.29	1.27
		PM <sub>10</sub>	0.29	1.27
		PM <sub>2.5</sub>	0.29	1.27

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FLARE3	North Flare – Pilot and Process Gas	NO <sub>x</sub>	4.37	--
		CO	37.20	--
		VOC	42.82	--
		SO <sub>2</sub>	50.48	--
		H <sub>2</sub> S	0.55	--
	North Flare - Gas Flaring	NO <sub>x</sub>	92.82	--
		CO	369.60	--
		VOC	255.70	--
		SO <sub>2</sub>	402.43	--
		H <sub>2</sub> S	4.00	--
29	West Flare – Pilot and Process Gas	NO <sub>x</sub>	4.37	--
		CO	37.20	--
		VOC	42.82	--
		SO <sub>2</sub>	50.48	--
		H <sub>2</sub> S	0.55	--
	West Flare Plant - Gas Flaring	NO <sub>x</sub> (6)	36.08	--
		NO <sub>x</sub> (7)	56.29	--
		CO	482.63	--
		VOC	297.24	--
		SO <sub>2</sub>	658.74	--
		H <sub>2</sub> S	7.01	

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FLARE3 and 29	North and West Flares Combined Annual Limits – Pilot and Process Gas	NO <sub>x</sub>	--	15.85
		CO	--	135.80
		VOC	--	156.31
		SO <sub>2</sub>	--	184.24
		H <sub>2</sub> S	--	2.00
	North and West Flares - Gas Flaring Combined Annual Limits	NO <sub>x</sub>	--	29.40
		CO	--	117.01
		VOC	--	81.00
		SO <sub>2</sub>	--	127.39
		H <sub>2</sub> S	--	1.27
30	TP Glycol Reboiler 15 MMBtu/hr	NO <sub>x</sub>	1.48	6.47
		CO	1.24	5.44
		VOC	0.08	0.36
		SO <sub>2</sub>	0.01	0.04
		PM	0.11	0.49
		PM <sub>10</sub>	0.11	0.49
		PM <sub>2.5</sub>	0.11	0.49
NGLFUG	Fugitives (5)	VOC	9.08	39.76
		H <sub>2</sub> S	0.04	0.20
CO2FUG	Fugitives (5)	VOC	9.33	41.07
		H <sub>2</sub> S	0.02	0.09
VRUFUG	VRU Fugitives (5)	VOC	0.05	0.22
		H <sub>2</sub> S	0.01	0.02

- (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<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - 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
  - CO - carbon monoxide
  - H<sub>2</sub>S - 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.
- (6) Hourly limit when EPN FLARE3 and EPN 29 are simultaneously conducting gas flaring.
- (7) Hourly limit when EPN FLARE3 and EPN 29 are not simultaneously conducting gas flaring.

Date: September 21, 2023