Emission Sources - Maximum Allowable Emission Rates

Permit Number 73394

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-1	Superior 8G825 800 bhp	NO_x	3.53	15.45
		CO	5.29	23.18
		VOC	1.76	7.73
		PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.12	0.53
		SO_2	<0.01	0.02
		Formaldehyde	0.03	0.13
ENG-2	Superior 8G825 800 bhp	NO_x	3.53	15.45
		CO	5.29	23.18
		VOC	1.76	7.73
		PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.12	0.53
		SO_2	<0.01	0.02
		Formaldehyde	0.03	0.13

Emission Sources - Maximum Allowable Emission Rates

ENG-3	Superior 6G825 500 bhp	NO_x	2.20	9.66
		CO	3.31	14.48
		VOC	1.10	4.83
		PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.08
ENG-4	Superior 6G825 500 bhp	NO_x	2.20	9.66
		CO	3.31	14.48
		VOC	1.10	4.83
		PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.08
ENG-7	Waukesha L7040 687 bhp	NO_x	3.03	13.27
		CO	4.54	19.90
		VOC	1.51	6.63
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.10
ENG-8A	Waukesha L7042G 687 bhp	NO_x	3.03	13.27

Emission Sources - Maximum Allowable Emission Rates

		CO	4.54	19.90
		VOC	1.51	6.63
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.10
ENG-9	Superior 8G825 667 bhp	NO_x	2.94	12.88
		CO	4.41	19.32
		VOC	1.47	6.44
		PM	0.10	0.44
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.10	0.44
		SO_2	<0.01	0.01
		Formaldehyde	0.03	0.11
ENG-17	Cooper Bessemer GMV-10 1,100 bhp	NO_x	43.65	191.19
		CO	19.40	84.98
		VOC	2.43	10.62
		PM	0.48	2.12
		PM_{10}	0.48	2.12
		$PM_{2.5}$	0.48	2.12
		SO_2	0.01	0.03
		Formaldehyde	0.55	2.42

Emission Sources - Maximum Allowable Emission Rates

ENG-18	Cooper Bessemer GMV-10 1,100 bhp	NO_x	43.65	191.19
		CO	19.40	84.98
		VOC	2.43	10.62
		PM	0.48	2.12
		PM_{10}	0.48	2.12
		$PM_{2.5}$	0.48	2.12
		SO_2	0.01	0.03
		Formaldehyde	0.55	2.42
ENG-19	Clark HBAT-10 2,600 bhp	NO_x	91.71	401.70
		CO	57.32	251.06
		VOC	5.73	25.11
		PM	0.97	4.23
		PM_{10}	0.97	4.23
		$PM_{2.5}$	0.97	4.23
		SO_2	0.01	0.05
		Formaldehyde	1.10	4.84
ENG-20	Clark HBAT-10 2,600 bhp	NO_x	91.71	401.70
		CO	57.32	251.06
		VOC	5.73	25.11
		PM	0.97	4.23
		PM_{10}	0.97	4.23
		$PM_{2.5}$	0.97	4.23
		SO_2	0.01	0.05
		Formaldehyde	1.10	4.84
ENG-21	Clark HBAT-10 2,600 bhp	NO_x	91.71	401.70

Emission Sources - Maximum Allowable Emission Rates

		CO	57.32	251.06
		VOC	5.73	25.11
		PM	0.97	4.23
		PM_{10}	0.97	4.23
		$PM_{2.5}$	0.97	4.23
		SO_2	0.01	0.05
		Formaldehyde	1.10	4.84
ENG-22	Clark HBAT-10 2,600 bhp	NO_x	91.71	401.70
		CO	57.32	251.06
		VOC	5.73	25.11
		PM	0.97	4.23
		PM_{10}	0.97	4.23
		$PM_{2.5}$	0.97	4.23
		SO_2	0.01	0.05
		Formaldehyde	1.10	4.84
ENG-23	Clark HBAT-10 2,600 bhp	NO_x	91.71	401.70
		CO	57.32	251.06
		VOC	5.73	25.11
		PM	0.97	4.23
		PM_{10}	0.97	4.23
		$PM_{2.5}$	0.97	4.23
		SO_2	0.01	0.05
		Formaldehyde	1.10	4.84

Emission Sources - Maximum Allowable Emission Rates

ENG-31a	Superior 8G825 667 bhp	NO_x	2.94	12.88
		CO	4.41	19.32
		VOC	1.47	6.44
		PM	0.10	0.44
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.10	0.44
		SO_2	<0.01	0.01
		Formaldehyde	0.03	0.11
ENG-32a	Superior 8G825 667 bhp	NO_x	2.94	12.88
		CO	4.41	19.32
		VOC	1.47	6.44
		PM	0.10	0.44
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.10	0.44
		SO_2	<0.01	0.01
		Formaldehyde	0.03	0.11
ENG-33a	Superior 8G825 667 bhp	NO_x	2.94	12.88
		CO	4.41	19.32
		VOC	1.47	6.44
		PM	0.10	0.44
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.10	0.44
		SO_2	<0.01	0.01
		Formaldehyde	0.03	0.11
ENG-34	Superior 6G510 400 bhp	NO_x	1.76	7.73

Emission Sources - Maximum Allowable Emission Rates

		CO	2.65	11.59
		VOC	0.88	3.86
		PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.08
ENG-35	Superior 6G510 400 bhp	NO_x	1.76	7.73
		CO	2.65	11.59
		VOC	0.88	3.86
		PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.08
ENG-38B	Superior 8G825 667 bhp	NO_x	2.94	12.88
		CO	4.41	19.32
		VOC	1.47	6.44
		PM	0.10	0.44
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.10	0.44
		SO_2	<0.01	0.01
		Formaldehyde	0.03	0.11

Emission Sources - Maximum Allowable Emission Rates

ENG-39	Waukesha L7042G 687 bhp	NO_x	3.03	13.27
		CO	4.54	19.90
		VOC	1.51	6.63
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.10
ENG-40	Waukesha L7042G 687 bhp	NO_x	3.03	13.27
		CO	4.54	19.90
		VOC	1.51	6.63
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		SO_2	<0.01	0.01
		Formaldehyde	0.02	0.10
ENG-41B	Waukesha L7042G 818 bhp	NO_x	3.61	15.80
		CO	5.41	23.70
		VOC	1.35	5.92
		PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.11	0.50
		SO_2	<0.01	0.02
		Formaldehyde	0.03	0.13
ENG-42	Caterpillar G-3408 425 bhp	NO_x	1.84	8.21

Emission Sources - Maximum Allowable Emission Rates

		CO	2.81	12.31
		VOC	0.94	4.10
		PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.03	0.14
		SO_2	<0.01	0.01
		Formaldehyde	0.17	0.75
ENG-43	Caterpillar C15 DITA 475 bhp	NO_x	3.53	2.65
		CO	2.54	1.91
		VOC	0.30	0.23
		PM	0.34	0.25
		PM_{10}	0.34	0.25
		$PM_{2.5}$	0.34	0.25
		SO_2	0.97	0.73
		Formaldehyde	0.53	0.42
TK-1204	North Gravity Drain Tank 6,391 gallons	VOC	<0.01	<0.01
TK-1205	South Gravity Drain Tank 6,391 gallons	VOC	<0.01	<0.01
TK-1206	Oil Skimmer Tank 7,669 gallons	VOC	<0.01	<0.01
TK-1210	Used Oil Tank	VOC	15.92	9.90
L-1	Condensate Truck Loading	VOC	1.21	0.08
L-2	Used Oil/Sales Tank Loadout	VOC	45.19	2.30
L-3	Methanol Loading	VOC	4.51	0.16

Emission Sources - Maximum Allowable Emission Rates

FUG	Plant Fugitives (5)	VOC	7.40	32.41
		H_2S	0.02	0.09
FUG-VHP	Loadout Operations Fugitives	VOC	0.05	0.21

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
H_2S - 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: May 31, 2019