Emission Sources - Maximum Allowable Emission Rates

Permit Number 2341

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)
P1001	Hot Oil Heater B-301	CO	1.39	5.20
		NO_x	3.42	12.79
		PM	0.13	0.47
		PM_{10}	0.13	0.47
		$PM_{2.5}$	0.13	0.47
		SO_2	0.19	0.71
		VOC	0.09	0.34
P4001	Hot Oil Heater B-401	CO	0.82	2.12
		NO_x	1.56	4.02
		PM	0.07	0.19
		PM_{10}	0.07	0.19
		$PM_{2.5}$	0.07	0.19
		SO_2	0.11	0.29
		VOC	0.05	0.14
P5002	Hot Oil Heater B-501	CO	2.12	5.00
		NO_x	2.64	6.22
		PM	0.19	0.45
		PM_{10}	0.19	0.45
		$PM_{2.5}$	0.19	0.45
		SO_2	0.29	0.68
		VOC	0.14	0.33

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P3001	Hot Oil Heater B-601	CO	0.29	0.74
		NO_x	0.33	0.85
		PM	0.03	0.07
		PM_{10}	0.03	0.07
		$PM_{2.5}$	0.03	0.07
		SO_2	0.04	0.10
		VOC	0.02	0.05
P3002	Hot Oil Heater B-602	CO	0.29	0.74
		NO_x	0.52	1.33
		PM	0.03	0.07
		PM_{10}	0.03	0.07
		$PM_{2.5}$	0.03	0.07
		SO_2	0.04	0.10
		VOC	0.02	0.05
P3003	Hot Oil Heater B-603	CO	0.82	2.60
		NO_x	1.65	5.20
		PM	0.07	0.24
		PM_{10}	0.07	0.24
		$PM_{2.5}$	0.07	0.24
		SO_2	0.11	0.35
		VOC	0.05	0.17

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P3022	Hot Oil Heater B-604	CO	0.16	0.42
		NO_x	0.24	0.62
		PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04
		SO_2	0.02	0.06
		VOC	0.01	0.03
P6003	Hot Oil Heater B-690	CO	2.33	5.31
		NO_x	0.61	1.39
		PM	0.21	0.48
		PM_{10}	0.21	0.48
		$PM_{2.5}$	0.21	0.48
		SO_2	0.32	0.72
		VOC	0.15	0.35
P2001	Hot Oil Heater B-701	CO	1.10	4.20
		NO_x	2.91	11.16
		PM	0.10	0.38
		PM_{10}	0.10	0.38
		$PM_{2.5}$	0.10	0.38
		SO_2	0.15	0.57
		VOC	0.07	0.28

Emission Sources - Maximum Allowable Emission Rates

P7004	Hot Oil Heater B-778	CO	1.05	4.35
		NO_x	0.84	3.46
		PM	0.21	0.88
		PM_{10}	0.21	0.88
		$PM_{2.5}$	0.21	0.88
		SO_2	0.32	1.32
		VOC	0.15	0.64
P7001	Hot Oil Heater B-790	CO	1.52	3.63
		NO_x	1.77	4.24
		PM	0.14	0.33
		PM_{10}	0.14	0.33
		$PM_{2.5}$	0.14	0.33
		SO_2	0.21	0.49
		VOC	0.10	0.24
P1003	Steam Boiler B-503	CO	2.41	6.20
		NO_x	4.29	11.01
		PM	0.22	0.56
		PM_{10}	0.22	0.56
		$PM_{2.5}$	0.22	0.56
		SO_2	0.33	0.84
		VOC	0.16	0.41

Emission Sources - Maximum Allowable Emission Rates

P1004	Steam Boiler B-505	CO	2.41	6.20
		NO_x	4.08	10.49
		PM	0.22	0.56
		PM_{10}	0.22	0.56
		$PM_{2.5}$	0.22	0.56
		SO_2	0.33	0.84
		VOC	0.16	0.41
P1005	Steam Boiler B-506	CO	2.41	6.20
		NO_x	4.09	10.50
		PM	0.22	0.56
		PM_{10}	0.22	0.56
		$PM_{2.5}$	0.22	0.56
		SO_2	0.33	0.84
		VOC	0.16	0.41
P2002	Steam Boiler B-507	CO	2.41	6.20
		NO_x	4.47	11.48
		PM	0.22	0.56
		PM_{10}	0.22	0.56
		$PM_{2.5}$	0.22	0.56
		SO_2	0.33	0.84
		VOC	0.16	0.41

Emission Sources - Maximum Allowable Emission Rates

P2003	Steam Boiler B-508	CO	2.41	6.20
		NO_x	2.24	5.76
		PM	0.22	0.56
		PM_{10}	0.22	0.56
		$PM_{2.5}$	0.22	0.56
		SO_2	0.33	0.84
		VOC	0.16	0.41
P1016	E-307 Vac Pump J-320	VOC	0.01	0.03
P1017	E-308 Vac Pump J-321	VOC	0.03	0.15
P1018	E-306 Vac Pump J-820	VOC	0.02	0.17
P1006	E-309 Steam Jet V-309	VOC	0.03	0.10
P1008	E-311 Steam Jet V-311	VOC (8)	0.06	0.28
P3014	Flare X-601	VOC	8.81	2.80
		NO_x	1.53	0.38
		CO	6.07	3.29
		SO_2	0.03	0.03
P3015	Flare X-602 (9)	VOC	< 0.01	< 0.01
		NO_x	0.01	0.05
		CO	0.02	0.11
		SO_2	< 0.01	< 0.01
P4004	Flare X-401	VOC	1.65	0.27
		NO_x	0.52	0.20
		CO	4.44	1.75
		SO_2	0.08	0.03
P6001	Flare X-695	VOC	12.78	18.87

Emission Sources - Maximum Allowable Emission Rates

		NO_x	1.62	2.40
		CO	13.88	20.59
		SO_2	0.15	0.23
PX501	Flare X-501	VOC	155.35	1.12
		NO_x	21.39	2.00
		CO	85.21	17.18
		SO_2	0.21	0.35
P7002	Flare X-794	VOC	25.47	4.52
		NO_x	4.33	2.74
		CO	37.09	23.52
		SO_2	0.38	0.26
P1024	Cooling Tower W-501	VOC	0.15	0.50
		PM	0.12	0.39
		PM_{10}	0.04	0.14
		$PM_{2.5}$	< 0.01	< 0.01
P5004	Cooling Tower W-502	VOC	0.17	0.55
		PM	0.10	0.33
		PM_{10}	0.03	0.11
		$PM_{2.5}$	< 0.01	< 0.01
P5005	Cooling Tower W-503	VOC	0.17	0.55
		PM	0.17	0.55
		PM_{10}	0.07	0.22
		$PM_{2.5}$	< 0.01	< 0.01
WW001	Encl. Sump Skimmer F-530	VOC	0.02	0.01
WW002	MOAT/Wastewater Collection Sump	VOC	< 0.01	< 0.01

Emission Sources - Maximum Allowable Emission Rates

WW003	WW Surge Tank F-1001	VOC	0.16	0.43
P1019	Baghouse R-301	PM	0.10	0.37
		PM_{10}	0.10	0.37
		$PM_{2.5}$	0.10	0.37
		VOC	0.01	0.01
P1010	Storage Tank F-320A	VOC	6.86	0.09
P1020	Storage Tank F-322A	VOC (8)	1.26	0.02
T1004	Storage Tank F-408	VOC	3.70	0.09
P1012	Storage Tank F-414	VOC (8)	0.24	0.01
P5001	Storage Tank F-560	VOC	6.35	0.13
T5009	Storage Tank F-581	VOC	2.94	< 0.01
T5010	Storage Tank F-582	VOC	0.02	< 0.01
T3001	Storage Tank F-606	VOC (8)	9.75	0.63
T3002	Storage Tank F-607	VOC (8)	9.29	0.14
T3003	Storage Tank F-608	VOC	1.76	0.12
P3006	Storage Tank F-608A	VOC	0.34	< 0.01
P3007	Storage Tank F-608B	VOC (8)	0.01	< 0.01
T3004	Storage Tank F-609	VOC	2.00	-
T3011	Storage Tank F-743	VOC	2.12	-
T3004/T3011	Tank F-609 and F-743 Cap	VOC	-	0.08
P3008	Storage Tank F-609A	VOC	3.66	-
P3009	Storage Tank F-609B	VOC	3.66	-
P3008/P3009	Tank F-609A and F-609B Cap	VOC	-	0.07
T1009	Storage Tank F-612	VOC (8)	1.72	0.08
T4001	Storage Tank F-612A	VOC (8)	12.40	0.70

Emission Sources - Maximum Allowable Emission Rates

T4002	Storage Tank F-612AA	VOC (8)	11.13	1.08
T2001	Storage Tank F-612B	VOC	3.39	0.02
T3005	Storage Tank F-612C	VOC (8)	0.53	0.15
T3008	Storage Tank F-617	VOC (8)	1.37	0.06
T4004	Storage Tank F-618	VOC (8)	2.42	0.07
T4005	Storage Tank F-619	VOC	4.27	0.47
T4007	Storage Tank F-621	VOC	2.89	-
T2004	Storage Tank F-707	VOC	1.04	-
T4007/T2004	Tank F-621 and F-707 Cap	VOC	-	< 0.01
T4008	Storage Tank F-640	VOC	8.46	0.01
T4009	Storage Tank F-641	VOC	0.19	< 0.01
T4010	Storage Tank F-642	VOC	1.28	0.01
T4012	Storage Tank F-644	VOC	0.50	0.12
T4013	Storage Tank F-645	VOC (8)	0.01	< 0.01
T5003	Storage Tank F-650	VOC	23.93	1.61
P6005	Storage Tank F-651	VOC	6.80	0.11
T5007	Storage Tank F-653	VOC	1.66	0.06
P6002	Storage Tank F-691 (6)	VOC (8)	3.75	0.01
T1010	Storage Tank F-702	VOC	0.71	0.01
T1013	Storage Tank F-705	VOC	0.61	-
T2007	Storage Tank F-722	VOC	0.28	-
T1013/T2007	Tank F-705 and F-722 Cap	VOC	-	< 0.01
T2003	Storage Tank F-706	VOC	0.30	0.01
T2005	Storage Tank F-708	VOC (8)	1.73	0.02
T2006	Storage Tank F-713	VOC	4.33	0.02

Emission Sources - Maximum Allowable Emission Rates

T5001	Storage Tank F-718	VOC	0.28	-
T5002	Storage Tank F-719	VOC	0.29	-
T5001/T5002	Tank F-718 and F-719 Cap	VOC	-	0.03
T5005	Storage Tank F-721	VOC	0.57	0.07
T2008	Storage Tank F-723	VOC	0.17	0.01
T2011	Storage Tank F-726 (6)	VOC	0.71	0.01
T2014	Storage Tank F-729	VOC (8)	1.36	0.06
P2004	Storage Tank F-730	VOC	3.90	0.06
T3010	Storage Tank F-742	VOC	0.30	0.04
T3024	Storage Tank F-746	VOC (8)	4.27	0.01
T6001	Storage Tank F-751	VOC	2.78	0.03
T6003	Storage Tank F-754	VOC (8)	1.58	0.01
T6007	Storage Tank F-755	VOC	1.22	0.05
T6004	Storage Tank F-775	VOC (8)	4.34	0.16
T6005	Storage Tank F-785	VOC (8)	0.68	0.75
T6008	Storage Tank F-796	VOC	3.89	0.04
P7007	Storage Tank F-797	VOC	1.27	0.04
P7006	Storage Tank F-799	VOC	3.57	0.02
P8003	Storage Tank F-832	VOC (8)	1.72	0.16
LT001	Truck Loading Rack A Loading Loss Fugitives	VOC	4.66	-
LT003	Truck Loading Rack C Loading Loss Fugitives	VOC	0.73	-
LT004	Truck Loading Rack D Loading Loss Fugitives	VOC	3.32	-
LT005	Truck Loading Rack E Loading Loss Fugitives	VOC	1.66	-

Emission Sources - Maximum Allowable Emission Rates

LT006	Truck Loading Rack F	VOC	4.60	-
LT007	Truck Loading Rack G	VOC (8)	14.84	0.18
	Truck Loading Rack G Loading Loss Fugitives	VOC	0.49	-
LR001	RailCar Loading Track 1 Spot 1	VOC	2.64	-
LR003	RailCar Loading Track 2 Spot 6 Connection Loss	VOC (6)	0.07	-
LR004	RailCar Loading Track 2 Spot 7 Connection Loss	VOC (6)	< 0.01	-
LR005	RailCar Loading Track 2 Spot 8	VOC (7)	20.77	-
LR006	RailCar Loading Track 3 Spot 9	VOC	6.24	-
LR014	Loading Scrubber, for Track 1, Spots 14 – 17, F-750	VOC	3.27	0.05
LR015	Drumming Plant (drum and tote loading)	VOC	5.15	0.11
LR016	Railcar Loading Track 1, Spots 14-17, Connection Loss	VOC (6)	0.28	< 0.01
LOADING	Loading Cap (10)	VOC	12.99	1.74
P1025	Plant 1WW Sump	VOC	0.01	< 0.01
P2005	Plant 2 WW Sump	VOC	0.01	0.01
P3024	Plant 3 WW Sump	VOC	0.01	0.01
P4005	Plant 4 WW Sump	VOC	< 0.01	< 0.01
P5007	Plant 5 WW Sump	VOC	0.04	0.01
P6004	Plant 6 WW Sump	VOC	< 0.01	< 0.01
P7003	Plant 7 WW Sump	VOC	0.02	0.01
P1026	Main WW Sump	VOC	0.30	0.20
P1027	Carbon Fines WW Sump	VOC	0.13	0.13
P1028	Drumming Plt WW Sump	VOC	< 0.01	< 0.01

Emission Sources - Maximum Allowable Emission Rates

F1001	Plant Fugitives (5)	VOC	4.20	18.39
P1029	Fire Water Diesel Pump (testing 38 hrs/yr) J-517	CO	2.75	0.05
		NO_x	12.77	0.24
		PM	0.91	0.02
		PM_{10}	0.91	0.02
		$PM_{2.5}$	0.91	0.02
		SO_2	0.85	0.02
		VOC	1.03	0.02
P1030	Fire Water Diesel Pump (testing 38 hrs/yr) J-517A	CO	2.75	0.05
		NO_x	12.77	0.24
		PM	0.91	0.02
		PM_{10}	0.91	0.02
		$PM_{2.5}$	0.91	0.02
		SO_2	0.85	0.02
		VOC	1.03	0.02
P1032	Wastewater Diesel Pump J-522B	CO	0.07	0.02
		NO_x	4.38	1.07
		PM	0.18	0.04
		PM_{10}	0.18	0.04
		$PM_{2.5}$	0.18	0.04
		SO_2	0.17	0.04
		VOC	0.21	0.05

(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

Emission Sources - Maximum Allowable Emission Rates

CO - carbon monoxide

(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) Controlled loading spot, emissions associated with clingage and residual vapor during disconnect.
(7) Loading spot with 2 arms, uncontrolled for OTBP, PTAP, and 2,4 DTAP and controlled for 2,6 DTBP.
(8) Emission limit prior to the vent being routed to control to be completed no later than January 2025. After the vent is routed to control, there will be no emissions to the atmosphere.
(9) Flare pilot emissions only. Used for planned maintenance, startup, and shutdown authorized through NSR Permit 84092.
(10) The Loading Cap shall include annual emissions from EPNs LT001, LT003, LT004, LT005, LT006, LT007, LR001, LR003, LR004, LR005, LR006, and LR016.

Dated: October 5, 2022