Emission Sources — Maximum Allowable Emission Rates

Permit Numbers 94433 and N134

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)
TK-401	Tank 401 (Phase 5)	VOC	16.45	3.02
TK-402	Tank 402 (Phase 6)	VOC	16.45	3.02
TK-1205	Tank 1205 (Phase 5)	VOC	10.26	5.66
TK-1208	Tank 1208 (Phase 5)	VOC	10.26	5.66
TK-1501	Tank 1501 (Phase 1)	VOC	9.06	5.93
TK-1502	Tank 1502 (Phase 1)	VOC	9.06	5.93
TK-1503	Tank 1503 (Phase 1)	VOC	9.06	0.86
TK-1504	Tank 1504 (Phase 1)	VOC	9.06	0.86
TK-2501	Tank 2501 (Phase 3)	VOC	9.84	8.22
TK-2502	Tank 2502 (Phase 1)	VOC	9.84	8.22
TK-2504	Tank 2504 (Phase 1)	VOC	9.84	8.22
TK-2505	Tank 2505 (Phase 1)	VOC	9.84	8.22
TK-2507	Tank 2507 (Phase 1)	VOC	9.84	8.22
TK-2509	Tank 2509 (Phase 2)	VOC	9.24	6.1
TK-2510	Tank 2510 (Phase 1)	VOC	9.84	8.22
TK-2511	Tank 2511 (Phase 1)	VOC	9.84	8.22
TK-3501	Tank 3501 (Phase 3)	VOC	9.18	11.8
TK-3502	Tank 3502 (Phase 3)	VOC	9.18	11.8
TK-3503	Tank 3503 (Phase 3)	VOC	9.18	11.8
TK-3504	Tank 3504 (Phase 3)	VOC	9.18	11.8
TK-3505	Tank 3505 (Phase 4)	VOC	9.18	11.8
TK-3506	Tank 3506 (Phase 4)	VOC	9.18	11.8
TK-3507	Tank 3507 (Phase 4)	VOC	9.18	11.8
TK-3508	Tank 3508 (Phase 4)	VOC	9.13	12.2
TK-3509	Tank 3509 (Phase 4)	VOC	9.13	12.2
TK-3510	Tank 3510 (Phase 2)	VOC	9.18	10.36
TK-3511	Tank 3511 (Phase 2)	VOC	9.18	10.36
TK-3512	Tank 3512 (Phase 2)	VOC	9.18	10.36
TK-3513	Tank 3513 (Phase 2)	VOC	9.18	10.36
TK-3514	Tank 3514 (Phase 4)	VOC	8.87	12.04

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

TANKCAP	Tank Cap – Phases 1 & 2 (6)	VOC	-	36.82
	Tank Cap – Phases 1, 2 & 3 (7)	VOC	-	55.29
	Tank Cap –Phases 1, 2, 3 & 4 (8)	VOC	-	79.23
	Tank Cap – Phases 1,2,3,4 & 5 (9)	VOC	-	86.27
TANKCAP	Tank Cap – Phases 1,2,3,4 5, & 6 (FINAL) (10)	VOC	-	87.28
TKCONT	Tank Roof Landing Control Device – Phase 1 & 2 (Controlled - >0.5 psia) (6)	VOC	13.06	0.24
		NO_x	3.67	0.36
		CO	7.33	0.72
		SO_2	0.02	0.01
		PM	1.02	0.1
		PM_{10}	1.02	0.1
		$PM_{2.5}$	1.02	0.1
	Tank Roof Landing Control Device – Phases 1, 2 & 3 (Controlled->0.5 psia) (7)	VOC	13.06	0.34
		NO_x	3.67	0.39
		CO	7.33	0.78
		SO_2	0.02	0.01
		PM	1.02	0.11
		PM_{10}	1.02	0.11
		$PM_{2.5}$	1.02	0.11
	Tank Roof Landing Control Device – Phases 1, 2, 3 & 4 (Controlled ->0.5psia) (8)	VOC	13.06	0.46
		NO_x	3.67	0.42
		CO	7.33	0.84
		SO_2	0.02	0.01
		PM	1.02	0.12
		PM_{10}	1.02	0.11
		$PM_{2.5}$	1.02	0.11
	Tank Roof Landing Control Device – Phases 1, 2, 3, 4 & 5 (Controlled ->0.5psia) (9)	VOC	13.06	0.47
		NOx	3.67	0.43
		CO	7.33	0.85
		SO2	0.02	0.01
		PM	1.02	0.12
		PM_{10}	1.02	0.12
		$PM_{2.5}$	1.02	0.12

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

TKCONT	Tank Roof Landing Control Device – Phases 1, 2, 3, 4 5, & 6 (Controlled ->0.5psia) FINAL (10)	VOC	17.09	0.48
		NOx	4.72	0.43
		CO	9.42	0.85
		SO2	0.02	0.01
		PM	1.31	0.12
		PM_{10}	1.31	0.12
		$PM_{2.5}$	1.31	0.12
TKLAND	Tank Landings – Phase 1 & 2 (Uncontrolled - <0.5 psia) (6)	VOC	17.65	1.08
	Tank Landings – Phase 1, 2 & 3 (uncontrolled -<0.5 psia) (7)	VOC	17.65	1.55
	Tank Landings – Phases 1, 2, 3 & 4 (uncontrolled -<0.5 psia (8)	VOC	17.65	2.11
	Tank Landings –Phases 1, 2, 3, 4, & 5 (uncontrolled, VP<0.5 psia) (9)	VOC	17.65	2.2
TKLAND	Tank Landings –Phases 1, 2, 3, 4, 5, & 6 (uncontrolled, VP<0.5 psia) FINAL (10)	VOC	17.65	2.21
FUG	Process Fugitive Components (5) – Phase 1 & 2 (6)	VOC	0.08	0.34
	Process Fugitive Components (5) – Phase 1, 2 & 3 (7)	VOC	0.1	0.46
	Process Fugitive Components (5) – Phases 1, 2, 3 & 4 (8)	VOC	0.13	0.57
	Process Fugitive Components (5) – Phases 1, 2, 3, 4, & 5 (9)	VOC	0.13	0.64
FUG	Process Fugitive Components (5) – Phases 1, 2, 3, 4, 5, & 6 FINAL (10)	VOC	0.15	0.66
MSS	MSS Emissions – Phase 1 & 2 (6)	VOC	117.67	1.28
		NO_x	8.02	0.93
		CO	16.02	1.85
		SO_2	0.03	0.01
		PM	2.23	0.26
		PM_{10}	2.23	0.26
		$PM_{2.5}$	2.23	0.26
	MSS Emissions – Phase 1, 2 & 3 (7)	VOC	117.67	1.83
		NO_x	8.02	1.27
		CO	16.02	2.54
		SO_2	0.03	0.01
		PM	2.23	0.35
		PM_{10}	2.23	0.35
		$PM_{2.5}$	2.23	0.35
	MSS Emissions – Phases, 1, 2, 3 & 4 (8)	VOC	117.67	2.42
		NO_x	8.02	1.33
		CO	16.02	2.65
		SO_2	0.03	0.01
		PM	2.23	0.37
		PM_{10}	2.23	0.37

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		$PM_{2.5}$	2.23	0.37
	MSS Emissions Cap – Phase 1, 2, 3, 4, & 5 (9)	VOC	117.67	2.56
		NOx	8.02	1.34
		CO	16.02	2.67
		SO2	0.03	0.01
		PM	2.23	0.37
		PM_{10}	2.23	0.37
		$PM_{2.5}$	2.23	0.37
MSS	MSS Emissions Cap – Phase 1, 2, 3, 4, 5, & 6 FINAL (10)	VOC	117.67	2.6
		NOx	8.02	1.34
		CO	16.02	2.68
		SO2	0.03	0.01
		PM	2.23	0.37
		PM_{10}	2.23	0.37
		$PM_{2.5}$	2.23	0.37

(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
(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) Emission caps include facilities authorized in Phases 1 & 2 of the project with VOC offsets identified in Special Condition 11. Offsets must be identified per Special Condition 11 prior to starting construction on any other facilities authorized by this permit. Phase 1 & 2 emission caps (EPNs TANKCAP, TKCONT, TKLAND, FUG, and MSS) do not apply after the start of operation of any facility authorized in Phase 3 construction.
(7) Emission caps include facilities authorized in Phases 1, 2 & 3 of the project with VOC offsets identified in Special Condition 11. Offsets must be identified per Special Condition 11 prior to starting construction on any other facilities authorized by this permit. Phase 1, 2 & 3 emission caps (EPNs TANKCAP, TKCONT, TKLAND, FUG and MSS) do not apply after the start of operation of any facility authorized in Phase 4 construction.
(8) Emission caps include facilities authorized in Phases 1, 2, 3 & 4 of the project with VOC offsets identified in Special Condition 11. Offsets must be identified per Special Condition 11 prior to starting operation on any other facilities authorized by this permit. Phase 1, 2, 3 & 4 emission caps (EPNs TANKCAP, TKCONT, TKLAND, FUG and MSS) do not apply after the start of operation of any facility authorized in Phase 5 construction.
(9) Emission caps include facilities authorized in Phases 1, 2, 3, 4, & 5 of the project with VOC offsets identified in Special Condition 11. Offsets must be identified per Special Condition 11 prior to starting operation on any other facilities authorized by this permit. Phase 1, 2, 3, 4, & 5 emission caps (EPNs TANKCAP, TKCONT, TKLAND, FUG and MSS) do not apply after the start of operation of any facility authorized in Phase 5 construction.
(10) Final emission caps will apply after the start of operation of facilities in Phase 6.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Date: May 21, 2018