Permit Number 9203

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)		Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
ST-11	Phase II (TK) Stack	VOC	0.78	3.36
		NO _X	10.32	18.84
		SO ₂	0.02	0.12
		РМ	0.77	3.40
		PM ₁₀	0.77	3.40
		PM _{2.5}	0.77	3.40
		со	12.68	24.20
		NH ₃	10.60	25.53
ST-14	Phase II (TK) Stack (Baghouse)	VOC	0.05	0.22
		NO _X	0.36	1.58
		SO ₂	0.01	0.03
		РМ	0.93	3.51
		PM ₁₀	0.93	3.51
		PM _{2.5}	0.93	3.51
		СО	0.74	3.24
ST-18B	Grinder Blower Vent	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04

ST-19	VK Stack	NOx	1.12	4.91
		СО	11.66	51.07
		VOC	0.05	0.22
		РМ	0.87	3.81
		PM ₁₀	0.87	3.81
		PM _{2.5}	0.87	3.81
		SO ₂	1.02	4.47
		H ₂ SO ₄	1.56	6.83
ST-20	VK Dust Collection System	РМ	1.11	0.90
	System	PM ₁₀	1.11	0.90
		PM _{2.5}	1.11	0.90
ST-23	Silo S-2402	РМ	0.09	0.23
		PM ₁₀	0.09	0.23
		PM _{2.5}	0.09	0.23
ST-24	TopFrax Catalytic Filter Operations	NH ₃	0.24	1.06
	(Slurry Application and Microwave Oven)	NOx	0.04	0.15
	Microwave Overij	VOC	0.18	0.8
		SO ₂	0.10	0.44
C-T-1	Fugitives, East Tank Farm (5)	NH ₃	0.01	0.04
	T diffi (5)	VOC	0.34	1.50
C-T-2	Fugitives, West Tank Farm (5)	NH ₃	0.02	0.09
C-T-3	H ₂ O ₂ Fugitives (5)	H ₂ O ₂	0.01	0.04
TKFUG	TK Production Building Fugitives (5)	VOC	0.04	0.19
	T ugitives (5)	NH ₃	0.58	1.28
		РМ	1.18	5.19
		PM ₁₀	1.18	5.19
		PM _{2.5}	1.18	5.19
VKFUG	VK Production Building Fugitives (5)	РМ	0.44	1.93
		PM ₁₀	0.44	1.93

		PM _{2.5}	0.44	1.93
T-1115	H ₂ O ₂ Storage Tank	H ₂ O ₂	0.03	0.01
T-1116	Lactic Acid Storage Tank	voc	0.04	0.01
ST-28	New TK DeNOx Unit	NOx	7.65	1.52
		со	2.10	2.31
		voc	5.57	6.23
		РМ	0.58	2.43
		PM ₁₀	0.58	2.43
		PM _{2.5}	0.58	2.43
		SO ₂	0.03	0.14
		NH ₃	8.12	10.09
		HNO ₃	0.71	<0.01
		H ₂ O ₂	<0.01	<0.01
		H ₃ PO ₄	0.32	<0.01
ST-29	New TK Dust Filtration	РМ	0.45	1.41
		PM ₁₀	0.45	1.41
		PM _{2.5}	0.45	1.41
		NH ₃	0.45	0.97
C-T-4	New TK Tank Farm	VOC	0.02	0.07
	Fugitives (5)	NH ₃	<0.01	<0.01
		HNO ₃	0.07	0.31
		H ₂ O ₂	<0.01	0.01
		H ₃ PO ₄	0.02	0.07
CTOWER5	New TK Cooling Tower	РМ	0.02	0.09
		PM ₁₀	0.01	0.06
		PM _{2.5}	<0.01	<0.01
		Cl ₂	<0.01	<0.01

(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

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

 NH_3 - ammonia H_2SO_4 - sulfuric acid H_2O_2 - hydrogen peroxide

HNO₃ - nitric acid
H₃PO₄ - phosphoric acid
Cl₂ - chlorine

(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: March 22, 2022