

Emission Sources - Maximum Allowable Emission Rates

Permit Number 136184

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)
Z920	Thermal Oxidizer	NO _x	5.67	24.82
		CO	5.06	22.17
		PM	1.51	6.60
		PM ₁₀	1.51	6.60
		PM _{2.5}	1.51	6.60
		SO ₂	0.18	0.79
		VOC	2.01	8.78
		NH ₃	1.19	5.19
		HCN	0.34	1.48
E945	Cooling Tower	PM	0.09	0.39
		PM ₁₀	0.06	0.28
		PM _{2.5}	0.02	0.11
PLTFUG	Plant Fugitives	VOC	< 0.01	0.01
		NH ₃	0.20	0.89
		HCN	0.02	0.07
LOAD	Product Loading/Unloading	NH ₃	< 0.01	< 0.01
		HCN	< 0.01	< 0.01
T903	50% NaOH Tank	NaOH	< 0.01	< 0.01
T-948	Start-up Tank	HCN	0.02	< 0.01
		NH ₃	0.23	< 0.01
T-999	Product Recycle Tank	HCN	0.01	< 0.01
		NH ₃	0.12	< 0.01
T901	30% NaCN Tank	HCN	0.03	0.02
		NH ₃	0.35	0.19

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T902	30% NaCN Tank	HCN	0.03	0.02
		NH ₃	0.35	0.19
Tank Emission Cap		HCN	0.03	0.02
		NH ₃	0.35	0.19
#1	Dust Scrubber	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
		NH ₃	1.42	5.32
		HCN	1.52	5.69
#2	Dryer Scrubber #1	PM	0.37	1.37
		PM ₁₀	0.37	1.37
		PM _{2.5}	0.37	1.37
		NH ₃	1.13	4.20
		HCN	0.25	0.95
#3	Dryer Scrubber #2	PM	0.37	1.37
		PM ₁₀	0.37	1.37
		PM _{2.5}	0.37	1.37
		NH ₃	1.13	4.20
		HCN	0.25	0.95
#4	Solid Plant Dust Fugitives	PM	0.16	0.69
		PM ₁₀	0.16	0.69
		PM _{2.5}	0.16	0.69
		HCN	0.09	0.38
#5	Caustic Day Tank	NaOH	< 0.01	< 0.01
#6	25% Caustic Tank	NaOH	< 0.01	< 0.01
#7	Leak Fugitives	HCN	< 0.01	< 0.01
		HAP	< 0.01	< 0.01
		VOC	< 0.01	< 0.01
#8	Combined Process Scrubbers Vent	VOC	0.14	0.53
		HAP	0.08	0.29
		NH ₃	41.12	179.27
		HCN	< 0.01	0.03
BULK	Bulk Container Opening	HCN	< 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

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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
HAP	- hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
NH ₃	- ammonia
HCN	- hydrogen cyanide
NaOH	- sodium hydroxide

(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 11, 2017