

Emission Sources - Maximum Allowable Emission Rates

Permit Number 4005

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)
79S-2A, B, and C	Plant 2 Scrubber/CAS System (Scrubbers 79S-2A, B, and C)	VOC		
S-7944	Scrubber S-7944	VOC		
S-7951	Scrubber S-7951	VOC		
S-7954	Scrubber S-7954	Monochloroacetic acid		
F-1	Flare F-1	VOC		
		NO _x		
		CO		
		SO ₂		
F-2	Flare F-2	VOC		
		NO _x		
		CO		
		SO ₂		
TO-1	Thermal Oxidizer TO-1	VOC		
		Acetone		
		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
B-1A	North Plant Boiler B1-A	VOC		
		NO _x		
		CO		

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		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
B-2A	South Plant Boiler B2-A	VOC		
		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
CWT-3	Cooling Tower 3	VOC		
		PM		
		PM ₁₀		
		PM _{2.5}		
CWT-4	Cooling Tower 4	VOC		
		PM		
		PM ₁₀		
		PM _{2.5}		
CWT-5	Cooling Tower 5	VOC		
		PM		
		PM ₁₀		
		PM _{2.5}		
CWT	3 Cooling Towers	VOC		
		PM		
		PM ₁₀		
		PM _{2.5}		
LOADPLT1A	Plant 1 Load Area A	VOC		
LOADPLT1B	Plant 1 Load Area B	VOC		

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LOADPLT2	Plant 2 Load Area	VOC		
LOADPLT3-RX	Plant 3 Load Area Reactors	VOC		
LOADPLT3-BLD	Plant 3 Load Area Reactors	VOC		
LOADPLT4	Plant 4 Load Area			
Load	Truck Loading Losses	VOC		
FUG	Plant Fugitives	VOC		
FWP	2 Fire Water Pumps	VOC		
		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
HOH-2	Hot Oil Heater 2	VOC		
		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
HOH-3	Hot Oil Heater 3	VOC		
		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
HOH-4B	Hot Oil Heater 4	VOC		

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		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
HOH	3 Hot Oil Heaters	VOC		
		NO _x		
		CO		
		SO ₂		
		PM		
		PM ₁₀		
		PM _{2.5}		
T-1007	Tank 1007	VOC		
T-1008	Tank 1008	VOC		
T-1415	Tank 1415	VOC		
T-1701	Tank 1701	VOC		
T-1702	Tank 1702	VOC		
T-4106	Tank 4106	VOC		
T-4119	Tank 4119	Amine Phosphate		
		Phosphoric Acid		
		HCl		
T-4128	Tank 4128	VOC		
T-4129	Tank 4129	VOC		
T-4130	Tank 4130	Phosphorous Acid		
T-4131	Tank 4131	Phosphorous Acid		
T-4132	Tank 4132	Ammonium Zirconium Lactate Complex		
		Ammonium Chloride		
		Ammonium Acetate		

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T-4133	Tank 4133	Polyphosphoric Acid		
T-4135	Tank 4135	VOC		
T-4137	Tank 4137	VOC		
T-4141	Tank 4141	Phosphorous Acid		
T-4144	Tank 4144	Amine Phosphate		
		Phosphoric Acid		
		HCl		
T-4145	Tank 4145	VOC		
T-4148	Tank 4148	VOC		
T-7903	Tank 7903	VOC		
T-7904	Tank 7904	VOC		
T-7905	Tank 7905	VOC		
T-7909	Tank 7909	VOC		
T-7910	Tank 7910	VOC		
T-7911	Tank 7911	VOC		
T-7920	Tank 7920	VOC		
T-7925	Tank 7925	VOC		
T-7929	Tank 7929	VOC		
T-7930	Tank 7930	VOC		
T-7934	Tank 7934	VOC		
T-7935	Tank 7935	VOC		
T-7936	Tank 7936	VOC		
T-7938	Tank 7938	VOC		
T-7940	Tank 7940	VOC		
T-7941	Tank 7941	ALFOL 20 (Alcohol C16-18)		
T-7942	Tank 7942	VOC		
T-7945	Tank 7945	Potassium Hydroxide Solution		
T-7947	Tank 7947	VOC		
T-7948	Tank 7948	VOC		

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T-7949	Tank 7949	VOC		
T-7950	Tank 7950	VOC		
T-7955	Tank 7955	VOC		
T-7956	Tank 7956	VOC		
T-7957	Tank 7957	VOC		
T-7958	Tank 7958	VOC		
T-7959	Tank 7959	VOC		
T-7960	Tank 7960	VOC		
T-7961	Tank 7961	Methanol		
T-7962	Tank 7962	Isopropyl Alcohol		
T-7963	Tank 7963	VOC		
T-7964	Tank 7964	VOC		
T-7965	Tank 7965	VOC		
T-7968	Tank 7968	VOC		
T-7971	Tank 7971	Potassium Borate 37% (CI-31)		
T-7972	Tank 7972	VOC		
T-7974	Tank 7974	VOC		
T-7975	Tank 7975	VOC		
T-7976	Tank 7976	VOC		
T-7977	Tank 7977	VOC		
T-7981	Tank 7981	Toluene		
T-7982	Tank 7982	VOC		
T-7983	Tank 7983	VOC		
T-7984	Tank 7984	VOC		
T-7985	Tank 7985	VOC		
T-7988	Tank 7988	VOC		
ACCUTANK	Accumulator Tank	VOC		
SITE	MSS Emission Cap (6)	VOC		
FUG-2	EO/PO Process Fugitives	VOC		

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FUG-5	Plant 2 & TF 7900A/B Fugitives	VOC		
FUG-9	Plant 1 & TF 4100	VOC		
FUG-18	Plant 3 Fugitives	VOC		
FUG-49	Plant 4 Fugitives	VOC		
FUG-PP	Pilot Plant Fugitives	VOC		
FUG-PKGCT	Central Packing Area Fugitives	VOC		
FUG-Plant	Plant VOC Fugitives	VOC		
FUG-9NV	FUG-9 Non-VOC Fugitives	Amine Phosphate		
		Phosphoric Acid		
		Phosphorous Acid		
		HCl		
FUG-5NV	FUG-5 non-VOC Fugitives	Potassium Borate		
		Potassium Hydroxide		
All Emission Points at the Site	All Sources at the Site	Individual HAP	---	<10
		Total HAP	---	<25

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - IOC-U - inorganic compounds (unspeciated)
 - 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
 - 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
- (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: _____