

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3179

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. 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	
			lb/hr	TPY
H9200	Incinerator	VOC	24.1	10.0
		NO _x	11.0	14.1
		CO	0.9	1.2
		PM ₁₀	0.4	0.5
		SO ₂	<0.1	<0.1
		Acetone	8.9	8.0
F8300	Heavy Ends Furnace	VOC	<0.1	0.2
		NO _x	1.6	7.6
		CO	0.4	1.9
		PM ₁₀	0.2	0.8
		SO ₂	<0.1	<0.1
F8301	Regen. Furnace	VOC	0.1	0.1
		NO _x	0.3	0.1
		CO	0.1	0.1
		PM ₁₀	0.1	0.1
		SO ₂	0.1	0.1
D306/D307	Phenol Tanks	VOC	53.2	5.0
D313	Toluene Tank	VOC	7.9	0.7
D342	Cumene Tank	VOC	18.1	1.9
D390	Acetone Tank	Acetone	1.7	2.0
D391	Acetone Tank	Acetone	1.7	2.0

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			lb/hr	TPY
D392	Acetone Tank	Acetone	1.7	2.0
D393	Benzene Tank	VOC	0.46	1.2
D394	Cumene Tank	VOC	20.3	0.9
D395	Cumene Tank	VOC	20.3	0.5
D400	Cumene Tank	VOC	4.2	0.5
D402/D403	Phenol Tanks	VOC	6.2	5.1
EX67	Caustic Tank	Caustic	0.5	0.1
S303A	Sulfuric Acid Tank	H ₂ SO ₄	0.1	0.1
EX80	Wastewater Tank	VOC	0.4	0.4
		Acetone	<0.1	0.2
WRACKFE	Acetone Land Loading Fugitives (4)	Acetone	6.7	5.4
SCRWRTC/ SCRWRTT	Acetone Land Loading Vent Scrubbers	Acetone	1.2	1.0
V9300	Phenol Land Loading	VOC	2.9	0.6
PAUFE	Fugitives (4)	VOC	18.4	80.5
ANALYZER	Process Analyzers	VOC	0.1	0.2
CWT13	Cooling Water Tower	VOC	2.1	9.2
CPI	CPI Separator	VOC	4.0	3.0

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			lb/hr	TPY
EPFLARE	East Property Flare	VOC	27.0	15.8
		NO _x	1.6	1.0
		CO	8.2	4.8
V8217	V-8217 Relief Drum	VOC	0.1	0.4
E8256	Cleavage Reactor Vent	Acetone	1.3	5.7
E8309	Acetone Finishing Column	Acetone	1.0	4.4
A1333	HIPA Flare (5)	VOC	0.1	0.4
		NO _x	0.1	0.6
		CO	0.9	4.0
CWT18	Cooling Water Tower	VOC	2.1	9.2
D345	Acetone Tank	Acetone	0.7	1.1
F335	Acetone Tank	Acetone	0.8	0.9
F354	Acetone Tank	Acetone	2.1	4.0
FUGPAU3	Phenol 3 Fugitives (4)	VOC	2.6	11.5
		Acetone	0.5	2.2
G330	Cumene Tank	VOC	40.8	15.2
G331	Cumene Tank	VOC	40.8	15.2
H87002	Thermal Oxidizer	VOC	6.7	26.7
		NO _x	0.9	3.9
		CO	0.5	2.2

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			lb/hr	TPY
		PM ₁₀	<0.1	0.1
		Acetone	1.5	3.4
T87301	Acetone Tank	Acetone	0.6	
T87302	Acetone Tank	Acetone	0.6	
T87301/T87302	Acetone Tanks	Acetone		3.8
V8342	Vent Stream Collection Vessel	VOC	<0.1	0.2
P87107	Diesel Engine (Fire Water Pump)	VOC	0.6	<0.1
		NO _x	7.4	0.4
		CO	1.6	<0.1
		PM ₁₀	0.5	<0.1
		SO ₂	0.5	<0.1
P87921	Diesel Engine (Demin. Water Pump)	VOC	0.2	<0.1
		NO _x	1.9	<0.1
		CO	0.4	<0.1
		PM ₁₀	0.1	<0.1
		SO ₂	0.1	<0.1

- (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.

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

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- (3) VOC - volatile organic compounds as defined in 30 TAC Section 101.1
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- SO₂ - sulfur dioxide
- Caustic - sodium phenate
- H₂SO₄ - sulfuric acid
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The emission rates listed for the HIPA Flare include only the Phenol 3 contributions to the flare. The HIPA flare has additional grandfathered emissions of 1.2 lb/hr (5.3 TPY) of propylene and 1.8 lb/hr (7.9 TPY) of propane that are not included in the allowables on this table.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____ Hrs/day _____ Days/week _____ Weeks/year or _____ 8,760
Hrs/year

Dated_____