

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
INH9200	Incinerator	VOC	35.0	13.1
		PM ₁₀	0.2	0.6
		SO ₂	<0.1	<0.1
		NO _x	7.6	3.0
		CO	0.8	3.6
FNF8300	Heavy Ends Furnace	VOC	<0.1	0.2
		NO _x	1.7	7.4
		SO ₂	<0.1	<0.1
		PM ₁₀	<0.1	0.3
		CO	0.5	1.9
FNF8301	Regen Furnace	VOC	<0.1	<0.1
		NO _x	0.3	0.1
		SO ₂	<0.1	<0.1
		PM ₁₀	<0.1	<0.1
		CO	<0.1	<0.1
TFD306	Phenol Tank	VOC	27.3	1.3
TFD307	Phenol Tank	VOC	27.3	1.3
TFD313	Toluene Tank	VOC	7.9	0.7
TFD342	Cumene Tank	VOC	18.3	1.7
TID390	Acetone Tank	Acetone	1.7	2.0
TID391	Acetone Tank	Acetone	1.7	2.0

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			lb/hr	TPY
TID392	Acetone Tank	Acetone	1.7	2.0
TID393	Benzene Tank	VOC	0.3	1.2
TFD394	Cumene Tank	VOC	18.1	0.9
TFD395	Cumene Tank	VOC	18.1	0.5
TFD400	Cumene Tank	VOC	2.7	0.5
TFD402	Phenol Tank	VOC	3.1	3.4
TFD403	Phenol Tank	VOC	3.1	3.4
TFEX67	Caustic Tank	Caustic	0.5	<0.1
TFS303A	Acid Tank	H ₂ SO ₄	0.1	<0.1
TIEX80	Wastewater Tank	VOC	0.4	0.4
FUGWRTCDMK	Acetone Land Loading Fugitives (4)	Acetone	6.7	5.4
CDEWRTCDMK	Acetone Land Loading Vent Condenser (5)	Acetone	18.6	15.1
SCRWRTCDMK	Acetone Land Loading Vent Scrubber (5)	Acetone	1.2	1.0
SBV9300	Phenol Land Loading	VOC	2.9	0.6
PAPFUG	Fugitives (4)	VOC	18.4	80.5
ANALYZERS	Process Analyzers	VOC	<0.1	0.2

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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>
CWT13	Cooling Water Tower	VOC	2.1	9.2
MARACE	Acetone Marine Loading	VOC	429.0	44.2

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			lb/hr	TPY
MARCUM	Cumene Marine Loading	VOC	48.3	0.7
MARPHEN	Phenol Marine Loading	VOC	14.0	0.7
CPI	CPI Separator	VOC	4.0	3.0
EPFLARE	East Property Flare	VOC	27.0	15.8
		NO _x	1.6	1.0
		CO	8.2	4.8
VESSEL	Drain Vessel	VOC	0.1	0.4
CDE8256	Cleavage Reactor Vent	Acetone	1.3	5.7
CDE8309	Acetone Finishing Column	Acetone	1.0	4.4

(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) PM₁₀ - particulate matter

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

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 Vent Condenser emission point, EPN CDEWRTCDMK, shall be used until the Vent Scrubber, EPN SCRWRTCDMK, is operational as required by Special Condition No. 6.

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

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

Hrs/day_____Days/week_____Weeks/year_____or Hrs/year 8,760

Dated_____