Permit Number 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, 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 (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
A1333	HIPA Flare	Acetone	0.72	2.00
	routine operations	со	104.29	128.37
		NO _x	24.93	45.49
		SO ₂	3.43	14.99
		VOC	202.53	25.00
A307R1	Crude Oil Tank	VOC	1.73	1.66
		H ₂ S	0.01	0.01
ANALYZER	Process Analyzers	voc	0.10	0.22
СРІ	CPI Separator	VOC	3.84	3.00
CUMFE	Cumene Unit Fugitives (5)	VOC	4.94	21.63
CWT13	Cooling Tower	VOC	2.10	9.20
		РМ	0.75	3.29
		PM ₁₀	0.23	0.99
		PM _{2.5}	0.01	0.02
CWT18	Cooling Tower	VOC	2.10	9.20
		PM	0.75	3.29
		PM ₁₀	0.23	0.99
		PM _{2.5}	0.01	0.02
D306/307/308	Phenol Tanks	VOC	49.6	8.8
D313	Toluene Tank	VOC	7.9	0.7
D342	Cumene Tank (6)	VOC	18.1	2.4
D342	Cumene Tank (7)	VOC	40.8	-

D345	Acetone Tank	Acetone	0.7	1.1
D345	Acetone Tank	VOC	0.29	0.28
D390	Acetone Tank	Acetone	1.7	2.0
D391	Acetone Tank	Acetone	1.7	2.0
D392	Acetone Tank	Acetone	1.7	2.0
D392	Acetone Tank	VOC	0.5	2.1
D393	Benzene Tank	Benzene	0.49	1.2
D394	Cumene Tank	VOC	-	1.5
D395	Cumene Tank	VOC	-	0.5
D393/394	Cumene Tanks	VOC	35.3	-
D400	Cumene Tank	VOC	4.2	0.5
D402/403	Phenol Tanks	Phenol	6.2	5.1
D8100	Storage Tank	Benzene	0.34	0.42
		VOC	0.38	0.90
E8256	Cleavage Reactor	Acetone	1.3	5.7
E8309	Finishing Column	Acetone	1.0	4.4
EPFLARE	East Property Flare	со	8.2	4.8
		NO _x	1.6	1.0
		SO ₂	0.01	0.01
		VOC	27.0	15.8
EX67	Caustic Tank	Caustic	0.5	0.1
EX80	Wastewater Tank	Acetone	0.1	0.2
		VOC	0.4	0.4
D335	Acetone Tank	Acetone	0.8	0.9
D354	Acetone Tank	Acetone	2.1	4.0
F8300	Heavy Ends	со	0.96	4.54
	Furnace	NO _x	1.63	7.73
		PM	0.09	0.41

		PM ₁₀	0.09	0.41
		PM _{2.5}	0.09	0.41
		SO ₂	0.37	2.01
		VOC	0.05	0.30
F8301	Regen Furnace	со	0.18	0.15
		NO _x	0.50	0.44
		РМ	0.07	0.06
		PM ₁₀	0.07	0.06
		PM _{2.5}	0.07	0.06
		SO ₂	0.16	0.14
		VOC	0.01	0.01
FUGPAU3	Phenol 3 Fugitives	Acetone	0.92	4.02
	(5)	VOC	6.00	26.27
G330/331	Cumene Tanks	VOC	40.8	15.2
H87002	Regenerative	Acetone	1.51	3.40
	Thermal Oxidizer (RTO)	со	1.75	2.45
		NO _x	3.15	4.41
		PM	0.15	0.45
		PM ₁₀	0.15	0.45
		PM _{2.5}	0.15	0.45
		SO ₂	0.01	0.01
		VOC	6.69	26.71
H9200	Catalytic Incinerator	Acetone	8.86	3.55
		СО	0.88	1.22
		NO _x	6.87	8.76
		РМ	0.35	0.45
		PM ₁₀	0.35	0.45
		PM _{2.5}	0.35	0.45

		SO ₂	0.02	0.02
		VOC	32.94	35.87
P87107	Diesel Engine	со	1.60	0.08
	Fire Water Pump (100 hours per	NO _x	7.44	0.37
	year)	РМ	0.53	0.03
		PM ₁₀	0.53	0.03
		PM _{2.5}	0.53	0.03
		SO ₂	0.49	0.03
		voc	0.60	0.03
P87921	Diesel Engine	со	0.40	0.02
	Demin Water Pump (100 hours per	NO _x	1.86	0.09
	year)	РМ	0.13	0.01
		PM ₁₀	0.13	0.01
		PM _{2.5}	0.13	0.01
		SO ₂	0.12	0.01
		voc	0.15	0.01
PAUFE	Phenol 2 Fugitives	Acetone	0.58	2.55
	(5)	voc	4.27	18.71
S303A	Sulfuric Acid Tank	Sulfuric Acid	0.1	0.1
SCRWRTC/ SCRWRTT	Acetone Land Loading	Acetone	1.08	1.33
V8217	V-8217 Relief Drum	VOC	0.1	0.4
V8321	Jet Condensate	Acetone	4.91	12.03
	Receiver Vent	VOC	0.01	0.02
V8342	Vent Stream Collection Vessel	voc	0.1	0.2
V9300	Phenol Land Loading	VOC	2.60	0.55
WRACKFE	Acetone Loading	Acetone	6.7	5.4

A1333	HIPA Flare	со	139.69	1.63
	MSS operations	NO _x	27.12	0.32
		VOC	365.60	4.82
A307R1	Crude Oil Tank	voc	1153.08	0.58
	MSS	H ₂ S	0.02	0.01
CUNSD	Cumene Unit Shutdown	VOC	0.33	0.02
EPFLARE	East Property Flare	со	5.56	0.27
	Cumene Unit Shutdown	NO _x	1.08	0.05
		VOC	8.98	0.43
		Benzene	1.60	0.08
V87003	Thermal Oxidizer	Acetone	0.01	0.01
	MSS	VOC	0.08	0.03
PAU2SD	Phenol 2 Unit	Acetone	0.74	0.04
	Shutdown	VOC	3.85	0.18
PAU3SD	Phenol 3 Unit	Acetone	0.47	0.02
	Shutdown	VOC	3.04	0.15
H87002	RTO	со	0.12	0.01
	Phenol 3 Unit Shutdown	NO _x	0.17	0.01
		Acetone	1.49	0.08
		voc	0.36	0.02
PAUMSSFUG	PAU MSS Fugitives	Acetone	1.55	0.19
		VOC	2.59	0.31
		Benzene	0.52	0.06
PAUPMPDCN	PAU Pump	Acetone	9.23	0.04
	Decontamination	voc	15.39	0.06
		Benzene	3.08	0.01
PAUSAMPL	PAU Loading	Acetone	0.07	0.01
	Samples	VOC	0.11	0.02
	1	1	1	

		Benzene	0.02	0.01
DSTMSSFUG	Distribution MSS Fugitives	VOC	3.18	0.38
DSTPMPDCN	Distribution MSS	voc	15.75	0.05
DSTSAMPL	Distribution Sample	VOC	0.12	0.01
DSTCN	Vessel Shutdown and Degassing	VOC	1.54	0.04

- (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) CO - carbon monoxide

NO_x - total oxides of nitrogen

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$ - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

 SO_2 - sulfur dioxide H_2S - hydrogen sulfide

VOC - volatile organic compounds as defined in Title 30 TAC § 101.1

- (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.
- (6) Emission limits during normal operations.
- (7) Emission limits in the event that it becomes necessary to off-load a cumene barge into Tank D342.

ember 10.	2016
	ember 10,