

Emission Sources - Maximum Allowable Emission Rates

Permit Number 53610

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)
SCRUB1POLY	Solution Plant Scrubber Normal Operations	VOC	26.77	21.59
		SO ₂	0.01	0.01
		PM	0.02	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		Acetone	0.01	0.01
SCRUB1POLY-MSS	Solution Plant Scrubber Planned MSS Activities	VOC	0.43	0.41
SCRUB1EMUL	Emulsion Plant Scrubber Normal Operations	VOC	12.19	8.66
		PM	0.05	0.04
		PM ₁₀	0.02	0.01
		PM _{2.5}	0.01	0.01
		HCl	0.03	0.01
		NH ₄ Cl	0.01	0.13
		Acetone	0.03	0.04
SCRUB1 EMUL-MSS	Emulsion Plant Scrubber Planned MSS Activities	VOC	0.40	0.17
SCRUB2EMUL	Sodium Hypochlorite Scrubber Normal Operations	NaClO	0.01	0.01
SCRUB2EMUL-MSS	Sodium Hypochlorite Scrubber Planned MSS Activities	NaClO	0.01	0.01
SCRUB-FORM	Formalin, 37 % Tank Scrubber	VOC	0.01	0.02
T-3503	Diethylenetriamine (DETA) Tank	VOC	0.01	0.01

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T-3504	EPI Storage Tank	VOC	0.01	0.01
T-3505	EPI Storage Tank	VOC	0.01	0.01
T-3514	COAG 57D Storage Tank	VOC	0.01	0.01
T-3515	COAG 123 Product Tank	VOC	0.01	0.01
T-3516	COAG 105 Product Tank	VOC	0.01	0.01
T-3517	COAG 105 Product Tank	VOC	0.01	0.01
T-3520	RX In-Process Vessel/Storage Tank	VOC	0.01	0.01
T-3521	COAG 93D Storage Tank	VOC	0.01	0.01
T-3522	DCA-247 Storage Tank	VOC	0.01	0.01
T-3523	Solution Plant Scale Tank	VOC	3.60	0.23
T-3538	Process Washwater Storage Tank	VOC	0.01	0.01
T-3539	Acrylic Acid Storage Tank	VOC	0.84	0.07
T-3561	Caustic Storage Tank	VOC	0.01	0.01
T-3563	Spent IPA	VOC	0.24	0.01
		Acetone	0.08	0.37
T-3567	Premium Solvent Storage Tank	VOC	0.39	0.01
T-3568	Duo O Storage Tank	VOC	0.02	0.01
T-3569	Tall Oil Storage Tank	VOC	0.01	0.01
T-3571	Methacrylic Acid Storage Tank	VOC	0.49	0.03
T-3572	DDSA Storage Tank	VOC	0.01	0.01
T-3573	Nonyl Phenol Storage Tank	VOC	0.01	0.01
T-3574	Process Washwater Storage Tank	VOC	0.53	0.02
T-3575	Morpholine Storage Tank	VOC	2.54	0.05
T-3576	CI-11C Product Tank	VOC	0.03	0.01
T-3577	CI-46C Product Tank	VOC	0.04	0.01

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T-3578	MD-115A Product Tank	VOC	0.94	0.03
T-3582	OCA245C Storage Tank	VOC	0.01	0.01
T-3592	Solution In-Process Vessel/Tank	VOC	0.01	0.01
T-3593	COAG 111 Storage Tank	VOC	0.01	0.01
T-3595	COAG 139 Storage Tank	VOC	0.01	0.01
T-3596	COAG 248 Storage Tank	VOC	0.25	0.05
T-35101	Spent IPA	VOC	0.03	0.01
		Acetone	0.01	0.05
T-35106	Caustic Storage Tank	VOC	0.01	0.01
T-35107	COAG 111 Storage Tank 2	VOC	0.01	0.01
T-35109	AGE Storage Tank	VOC	0.45	0.01
T-35120	Acrylamide 53 % Tank	VOC	0.01	0.01
T-35121	AETAC Storage Tank	VOC	0.01	0.01
T-35303	Emulsion Wastewater Holding Tank	VOC	0.01	0.01
T-35124	Vista Oil Storage Tank	VOC	0.09	0.01
T-35129	Vista Oil Storage Tank	VOC	0.09	0.01
T-35134	NP COAG 102 Storage Tank	VOC	0.01	0.01
T-35136	COAG 102 Storage Tank	VOC	1.81	0.12
T-35155	Solution In-Process Vessel/Tank	VOC	0.01	0.01
T-35162	PEGAE Storage Tank	VOC	0.01	0.01
T-35221	Allyl Alcohol Storage Tank	VOC	0.01	0.01
T-35300	Formalin Feed Tank	VOC	0.01	0.01
T-35301	Nonoethanolamine Storage Tank	VOC	0.11	0.01
T-35311	AGEFLEX MDMDAC Storage Tank	VOC	0.01	0.01

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T-35312	VM-239	VOC	0.16	0.19
T-35400	CI-166 Storage Tank	VOC	0.01	0.01
T-35401	Sodium Hypochlorite (12.5%) Tank	NaClO	0.01	0.01
Carb-Can	Allyl Glycidyl Ether (AGE) CAS	VOC	3.06	0.02
PK-3536	Sodium Bisulfite Tank Scrubber	SO ₂	0.03	0.15
DIESEL 1	Fuel Tank for Solution Plant	VOC	0.10	0.10
DIESEL 2	Fuel Tank for Emulsion Plant	VOC	0.10	0.10
DIESEL 3	Fuel Tank for Fire Pump	VOC	0.10	0.10
SP-FUG	Solution Plant Fugitives (5) (from Components)	VOC	2.51	6.32
		Acetone	0.01	0.01
TOTEB-SP	Solution Plant Fugitives (5)	VOC	0.01	0.01
EP-FUG	Emulsion Plant Fugitives (5) (from Components)	VOC	0.18	0.36
		Acetone	0.01	0.01
TOTEB-EP	Emulsion Plant Fugitives (5)	VOC	0.01	0.01
HOT-BOX	Emulsion Plant Bldg. Fugitives (5)	VOC	0.04	0.01
HOT-RM	Fugitive Emissions (5)	VOC	0.03	0.01
SP-LOAD	Solution Plant Loading to Drums/Totes and Trucks	VOC	14.88	0.65
		Acetone	0.01	0.01
		HCl	0.01	0.01
EP-LOAD-TR	Emulsion Plant Loading to Trucks	VOC	0.81	0.01
		NH ₄ Cl	0.01	0.01
		HCl	0.01	0.01
SCREEN-FUG	Product Screening Fugitives (5)	VOC	0.04	0.04
COOL	Cooling Tower	PM	0.32	1.41

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		PM ₁₀	0.32	1.41
		PM _{2.5}	0.32	1.41
		Cl ₂	0.10	0.10
		Br ₂	0.10	0.10
BOIL-1	Boiler 1 (South)	NO _x	0.42	1.83
		CO	0.35	1.53
		VOC	0.02	0.10
		SO ₂	0.06	0.27
		PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
BOIL-2	Boiler 2 (North)	NO _x	0.42	1.83
		CO	0.35	1.53
		VOC	0.02	0.10
		SO ₂	0.06	0.27
		PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
HEAT-1	Hot Oil Heater	NO _x	0.42	1.85
		CO	0.36	1.56
		VOC	0.02	0.10
		SO ₂	0.06	0.28
		PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14

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SP-EMGEN	Solution Plant Emergency Generator (6)	NOx	5.25	0.01
		CO	1.40	0.01
		VOC	0.59	0.01
		SO2	0.07	0.01
		PM	0.11	0.01
		PM ₁₀	0.11	0.01
		PM _{2.5}	0.11	0.01
EP-EMGEN	Emulsion Plant Emergency Generator (6)	NOx	5.25	0.01
		CO	1.40	0.01
		VOC	0.59	0.01
		SO2	0.07	0.01
		PM	0.11	0.01
		PM ₁₀	0.11	0.01
		PM _{2.5}	0.11	0.01
FRPUMP	Fire Pump (7)	NOx	5.26	0.05
		CO	1.40	0.01
		VOC	0.01	0.01
		SO2	0.07	0.01
		PM	0.11	0.01
		PM ₁₀	0.11	0.01
		PM _{2.5}	0.11	0.01
OWSEP	Oil-Water Separator	VOC	0.63	0.53
MSS - AWA	Arc Welding - MSS Activities	PM	1.19	0.16
		PM ₁₀	1.19	0.16

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		PM _{2.5}	1.19	0.16
MSS - PVI	Pump, Valves, and Instruments Planned MSS Activities	VOC	0.06	0.01
MSS - PRV	Pressure Relief Valves - Planned MSS Activities	VOC	0.07	0.01
MSS - TANK	Tank Washwater - MSS Activities	VOC	0.15	0.01
MSS- VAC	Vacuum Truck - MSS Activities	VOC	0.01	0.01
MSS-T3598	Washout Water Storage Tank	VOC	2.90	0.01
MSS-T35303	Washout Water Storage Tank	VOC	0.69	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
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- 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
- HCl - hydrochloric acid
- NaClO - sodium hypochlorite
- NH₄Cl - ammonium chloride
- 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.
- (6) Each emergency generator is limited to a maximum of 4 hours of testing operations in a rolling 12-month period.
- (7) The fire pump is limited to a maximum of 20 hours of testing operations in a rolling 12-month period.

Dated: October3, 2014