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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
SCRUB1POLY	Solution Plant Scrubber	VOC SO_2 0.10 PM 0.10 $Acetone$ H_2SO_4 0.10 HCI 0.10 HCN 0.10	25.28 0.35 0.10 0.98 0.10 0.10	22.10 2.84
T-3523	Solution Plant Scale Tank	VOC	0.10	0.10
T-3592	Solution Plant In-Process Tank and Storage Tank (4)	VOC	0.10	0.10
T-35155	Solution Plant In-Process Tar and Storage Tank (4)	nk VOC	0.10	0.10
T-3520	RX In-Process Vessel and Storage Tank	VOC	3.54	0.61
SCRUB 1EMUL	Emulsion Plant Scrubber	VOC PM 0.10 H ₂ SO ₄ 0.10 NH ₄ Cl 0.10 Acetone	16.84 0.10 0.10 0.10 0.10	7.95 0.10
T-3503	Diethylenetriamine (DETA) Storage Tank	VOC	0.10	0.10
T-3539	Acrylic Acid Storage Tank	VOC	0.63	0.14
T-3567	Heavy Aromatic Naphta/ Naphtalene Storage Tank	VOC	0.49	0.10

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

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
T-3571	Methacrylic Acid Storage Tar	k VOC	0.07	0.33
SCRUB-FORM	Formalin, 37 percent Storage Tank w/Scrubber	VOC	0.46	0.02
T-3573	Nonyl Phenol Storage Tank	VOC	0.10	0.10
T-3575	Morpholine Storage Tank	VOC	3.97	0.10
T-3568	Duo O Storage Tank	VOC	0.10	0.10
T-3593	COAG 111 Storage Tank 1	VOC	0.10	0.10
T-35107	COAG 111 Storage Tank 2	VOC	0.10	0.10
Carb-Can	Allyl Glycidyl Ether (AGE) Storage Tank w/Carbon Car	VOC nister	3.06	0.02
PK-3536	Sodium Bisulfite Storage Tan w/Scrubber	k VOC	0.20	0.87
DIESEL 1	Fuel Tank for Solution Plant Emergency Generator	VOC	0.10	0.10
DIESEL 2	Fuel Tank for Emulsion Plant Emergency Generator	VOC	0.10	0.10
DIESEL 3	Fuel Tank for Fire Pump	VOC	0.10	0.10
T-35120	Acrylamide 53 percent Storage Tank	VOC	0.10	0.10
T-35124	Vista Oil Storage Tank	VOC	0.10	0.10
T-35129	Vista Oil Storage Tank	VOC	0.10	0.10

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
T-3563	Spent IPA	VOC	0.15	0.10
		Acetone	0.10	0.10
T-35101	Spent IPA	VOC	0.15	0.10
	·	Acetone	0.10	0.10
T-3515	COAG 123 Product Storag Tank	e VOC	0.10	0.10
T-3516	COAG 105 Product Storag Tank	e VOC	0.10	0.10
T-3517	COAG 105 Product Storag Tank	e VOC	0.10	0.10
T-3578	MD-115A Product Storage Tank	VOC	0.64	0.05
T-3521	COAG 93D Product Storag Tank	ge VOC	0.10	0.10
T-3522	DCA 222 Product Storage Tank	VOC	0.10	0.10
T-3576	CI-11C Product Storage Tank	VOC	0.10	0.10
T-3577	CI-46C Product Storage Tank	VOC	0.10	0.10
T-3582	COAG 117 Product Storag Tank	e VOC	0.10	0.10
T-3595	COAG 139 Product Storag Tank	e VOC	0.10	0.10

Emission	Source	Air	Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
SP-FUG	Solution Plant Fugitives (5	5)	VOC	2.80	8.56
	(from Components)		Acetone	0.10	0.10
TOTEB-SP	Solution Plant Fugitives (5 (from Tote Bins)	5)	VOC	1.63	0.46
EP-FUG	Emulsion Plant Fugitives ((5)	VOC	0.10	0.31
	(from Compenents)		Acetone	0.10	0.10
TOTEB-EP	Emulsion Plant Fugitives ((from Tote Bins)	(5)	VOC	0.10	0.10
HOT-BOX	Emusion Plant Bldg. Fugit (from Hot Box)	ives (5)VOC	0.10	0.10
HOT-RM	Fugitive Emissions (5) (from Hot Room)		VOC	0.10	0.10
SP-LOAD	Solution Plant Loading to		VOC	10.18	0.77
	Drums/Totes and Trucks		Acetone	0.69	0.10
		Hydro	ogen Chloride	0.01	0.01
EP-LOAD-TR	Emulsion Plant Loading		VOC	4.94	0.20
	to Trucks		NH₄CI	0.01	0.01
		HCI	0.01	0.01	
SCREEN-FUG	Product Screening Fugitiv	es (5)	VOC	0.10	0.24
COOL	Cooling Tower		PM	0.32	1.41
		CI_2	0.10	0.10	
		Br ₂	0.10	0.10	
BOIL-1	Boiler 1		NO _x	1.25	4.51
	(South)		CO	1.05	3.79
		VOC	0.10	0.25	

Emission	Source	Air	Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
BOIL-2	Boiler 2 (North)	SO ₂ PM VOC SO ₂ PM	0.19 0.10 NO _x CO 0.10 0.19 0.10	0.68 0.34 1.25 1.05 0.24 0.68 0.34	4.51 3.79
HEAT-1	Hot Oil Heater	CO VOC SO ₂ PM	NO _x 1.01 0.10 0.18 0.10	1.20 3.64 0.24 0.65 0.33	4.33
SP-EMGEN	Solution Plant Emergency Generator	VOC SO ₂ PM	NO _x CO 0.15 0.10 0.11	5.10 1.33 0.10 0.10 0.10	0.10 0.10
EP-EMGEN	Emulsion Plant Emergenc Generator	VOC SO ₂ PM	NO _x CO 0.15 0.10 0.11	5.10 1.33 0.10 0.10 0.10	0.10 0.10
FRPUMP	Fire Pump	CO VOC SO ₂ PM	NO _x 1.33 0.13 0.10 0.11	5.10 0.13 0.10 0.10 0.10	0.49

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2)	Specific point source names. For fugitive sources, use an 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 SO₂ - sulfur dioxide PM - particulate matter, suspended in the atmosphere, including PM₁₀. PM₁₀ - particulate matter 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. CO - carbon monoxide HCI - hydrogen chloride HCN - hydrogen cyanide H₂SO₄ - sulfuric acid NH₄CI - ammonium chloride
	Cl ₂ - chlorine Br ₂ - bromine
(4)	Tanks T-3592 and T-35155 will be used interchangeably as an in-process tank, but not simultaneously.
(5)	Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
	Hrs/day Days/week Weeks/year or <u>8,760</u> Hrs/year
**	Compliance with annual emission limits is based on a rolling 12-month period.
	Dated November 20, 2003