Emission Sources - Maximum Allowable Emission Rates

Permit Number 7595A and PSDTX284M1

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 (5)	
			lbs/hour	TPY (4)
3-1-11	Incinerator 4702 (IN-4702)	NO_X	60.69	111.32
		CO	10.87	47.63
		VOC	1.26	2.89
		SO_2	134.79	218.25
		SO_3 / H_2SO_4 Mist	4.21	6.82
		PM	6.84	12.42
		PM_{10}	6.18	11.33
		$PM_{2.5}$	5.75	10.60
		Acrylic Acid	0.13	0.32
		Acetone	< 0.01	< 0.01
3-1-21	Fugitive Emissions	VOC	< 0.01	0.01
		Acrylic Acid	< 0.01	< 0.01
1-2-06	2-EHA Storage Drum	VOC	0.27	0.01
1-2-07	D-690 Storage Tank	VOC	0.82	0.22
1-2-08	D-691 Storage Tank	VOC		
1-2-09	D-692 Storage Tank	VOC		
3-2-04	D-221 Storage Tank	VOC	0.09	< 0.01
3-2-07	D-614A Storage Tank	VOC	0.27	< 0.01
3-2-100	D-101 PTSA Tank	VOC	0.02	< 0.01
3-2-106	Process Fugitives	VOC	0.34	1.47
		Acrylic Acid	0.09	0.40
3-2-103	Storage Vessel Emissions Routed to Process Vent E-156	VOC	1.63	6.04
3-2-20	Truck Loading/Rail Car Loading	VOC	0.53	0.13
		Acrylic Acid	< 0.01	< 0.01

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3-2-105	Barge Loading	VOC	0.45	0.04
		Acrylic Acid	< 0.01	< 0.01
3-2-160	D-160 Process Tank	VOC	0.03	< 0.01
3-2-21	2EHA Residue Loading	VOC	0.02	< 0.01
		Acrylic Acid	0.02	< 0.01
3-2-103 S/D	2-ETHA Planned Shutdown to E-156	VOC	5.93	0.04
2EHMSS	Planned MSS	VOC	3.22	0.39
3-3-02	BA Flare	NO_x	0.06	0.25
		CO	0.49	2.13
		VOC	0.98	4.30
		SO_2	< 0.01	< 0.01
3-3-03	DBSA Tank	VOC	1.47	< 0.01
3-1-22	Cooling Tower	VOC	1.06	0.19
		PM	0.04	0.18
		PM_{10}	0.02	0.09
		$PM_{2.5}$	< 0.01	< 0.01
3-3-09	Maintenance Wastewater Tank	VOC	0.01	< 0.01
3-3-08	Wastewater Storage Tank	VOC	0.01	< 0.01
3-3-06	Truck/Rail Loading	VOC	0.48	0.16
3-3-07	Barge Loading	VOC	0.70	0.13
3-3-01	BA Fugitive Emissions	VOC	1.56	6.85
		Acrylic Acid	0.01	0.03
3-3-10	Petroflo Storage Tote	VOC	0.02	< 0.01
3-3-11	Pipe Pigging from Barge Loading	VOC	0.06	< 0.01
BAMSS	Planned MSS	VOC	8.86	1.39
3-5-09	AAE Feed	VOC	1.54	0.63
		Acrylic Acid	1.54	0.63
3-5-12	AAE Reprocessing Feed	VOC	0.09	0.12
		Acrylic Acid	0.09	0.12

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3-5-13	AAE Feed to 300 Blk	VOC	0.79	0.04
		Acrylic Acid	0.79	0.04
3-5-14	AAE Feed to 300 Blk	VOC	(6)	0.14
		Acrylic Acid	(6)	0.14
3-5-15	MEHQ Make-up	VOC	0.06	0.01
		Acrylic Acid	0.06	0.01
3-5-16	MEHQ Mixing	VOC	0.01	< 0.01
		Acrylic Acid	0.01	< 0.01
3-5-02	AA-G Vacuum System (D-340)	VOC	< 0.01	< 0.01
		Acrylic Acid	< 0.01	< 0.01
3-5-03	AA-G3 Vacuum System (VD-440)	VOC	< 0.01	< 0.01
		Acrylic Acid	< 0.01	< 0.01
3-5-04	GAA Fugitive Emissions	VOC	0.32	1.39
		Acrylic Acid	0.31	1.36
3-5-25	AA Purification (E-9150)	VOC	1.01	0.33
		Acrylic Acid	1.01	0.33
3-5-RESLD	GAA Crystallized Loading and Residue Railcar Loading	VOC	1.52	0.10
		Acrylic Acid	0.04	0.01
3-5-27	GAA Residue Truck Loading	VOC	0.01	< 0.01
		Acrylic Acid	0.01	< 0.01
3-5-26	GAA Treatment Chemical Delivery System	PM	0.03	0.01
		PM_{10}	0.02	0.01
		$PM_{2.5}$	0.02	0.01
GAAMSS	Planned MSS	NH_3	1.17	0.01
		VOC	1.81	0.63

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$

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$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH_3 - ammonia
SO_3 - sulfur trioxide
H_2SO_4 - sulfuric acid

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Planned maintenance, startup and shutdown activities and emissions are authorized from this EPN.
(6) EPNs 3-5-13 and 3-5-14 function as a group. Hourly emissions for 3-5-13 represent the maximum emissions from this group in any hour.

Date: February 15, 2024