

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 9224A

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)
BS-1	Boiler Stack	VOC	0.03	0.15
		NO <sub>x</sub>	0.62	2.71
		CO	0.52	2.27
		SO <sub>2</sub>	0.01	0.02
		PM	0.05	0.21
		PM <sub>10</sub>	0.05	0.21
		PM <sub>2.5</sub>	0.05	0.21
BS-2	Boiler Stack	VOC	0.03	0.15
		NO <sub>x</sub>	0.62	2.71
		CO	0.52	2.27
		SO <sub>2</sub>	0.01	0.02
		PM	0.05	0.21
		PM <sub>10</sub>	0.05	0.21
		PM <sub>2.5</sub>	0.05	0.21
EP-9	Fugitives (5)	VOC	9.94	43.53
		CFC	0.66	2.88
EP-40	Methanol Scrubber	VOC	42.01	30.20
		CFC	67.28	47.77
EP-41	Extruder Vent	VOC	0.10	0.40
EP-43	Transport Dust Collector	PM	0.09	0.01
		PM <sub>10</sub>	0.09	0.01
		PM <sub>2.5</sub>	0.09	0.01

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EP-51	Transport Vent	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
EP-52	Transport Vent	PM	0.09	0.01
		PM <sub>10</sub>	0.09	0.01
		PM <sub>2.5</sub>	0.09	0.01
EP-53	Transport Vent	PM	0.09	0.07
		PM <sub>10</sub>	0.09	0.07
		PM <sub>2.5</sub>	0.09	0.07
EP-54	Transport Vent	PM	0.09	0.07
		PM <sub>10</sub>	0.09	0.07
		PM <sub>2.5</sub>	0.09	0.07
EP-55	Rework Blender	VOC	6.00	0.03
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
EP-60	Reactor Vents	VOC	5.00	0.75
		CFC	0.50	0.08
EP-65	Centrifuge Effluent Holding Tank Vent 1	VOC	0.06	0.10
		CFC	0.05	0.09
F-1	Monomer Recovery Flare	VOC	5.74	2.68
		NOx	0.87	0.42
		CO	6.15	2.89
		HCl	0.01	0.01
		HF	0.02	0.01
		SO <sub>2</sub>	<0.01	<0.01
G-1	Emergency Generator	NOx	20.79	1.04
		CO	4.48	0.22

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		SO <sub>2</sub>	1.37	0.07
		PM	1.48	0.07
		PM <sub>10</sub>	1.48	0.07
		PM <sub>2.5</sub>	1.48	0.07
PT-5	Oven	PM	0.01	0.05
		PM <sub>10</sub>	0.01	0.05
		PM <sub>2.5</sub>	0.01	0.05
PT-6	Halar Milling	PM	0.01	0.02
		PM <sub>10</sub>	0.01	0.02
		PM <sub>2.5</sub>	0.01	0.02
T-100	CFC-Solvent Storage	CFC	50.76	0.42
U-802	Catalyst Mix Tank	CFC	7.92	0.29
		VOC	0.81	0.01
U-804	Catalyst Mix Tank	CFC	4.79	0.32
		VOC	0.15	<0.01
U-805	Catalyst Separator	CFC	<0.01	0.01
		VOC	<0.01	<0.01
U-806	Catalyst Separator	CFC	<0.01	<0.01
		VOC	<0.01	<0.01
U-807	Catalyst Separator	CFC	<0.01	<0.01
		VOC	<0.01	<0.01
U-828	Chain Transfer Agent	VOC	0.64	0.05
U-832	Methanol Storage	VOC	17.84	0.19
U-838	Aqueous Waste Storage Tanks (U-890 and U-891)	VOC	0.24	0.20
		CFC	0.24	0.20
U-852 Project Number: 329341	Catalyst Material Storage	VOC	0.93	<0.01
U-905	Catalyst Separator	CFC	<0.01	0.01
		VOC	<0.01	<0.01

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U-1807	Equalization Tanks	VOC	0.32	0.16
		CFC	<0.01	<0.01
U-1808	Equalization Tanks	VOC	0.32	0.16
		CFC	<0.01	<0.01
U-1820	Reflux Tank	VOC	0.12	0.02
		CFC	<0.01	<0.01
U-1823	Overhead Storage	VOC	0.01	0.03
		CFC	<0.01	<0.01
U-1825	Stripper Wastewater Tank	VOC	0.03	0.01
U-1826	Stripper Wastewater Tank	VOC	0.03	0.01
Maintenance, Startup and Shutdown (MSS) Emissions				
CAS-830	Carbon Adsorption	VOC	0.25	<0.01
CAS-852	Carbon Adsorption	VOC	0.01	<0.01
EP-65	Filter, Pumps, and PFPVE Wash	VOC	53.32	0.46
		CFC	22.77	0.05
E-803	Train I Brine Exchanger	VOC	0.01	<0.01
E-804	Train II Brine Exchanger	VOC	0.01	<0.01
E-903	Train III Brine Exchanger	VOC	0.01	<0.01
E-814	Water Cooler	VOC	0.04	<0.01
T-100	Filter and Pump	CFC	154.59	0.08
U-802	Filter and other equipment	VOC	0.80	0.01
		CFC	6.40	0.04
U-804	Catalyst Mix Tanks	VOC	0.14	<0.01
		CFC	2.87	<0.01
U-807	Catalyst Separators	VOC	0.10	<0.01
		CFC	0.92	<0.01
U-828	Chain Transfer Agent	VOC	13.40	0.18
U-832	Pump	VOC	14.93	0.06

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U-1823	Filter and other equipment	VOC	5.61	<0.01
Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
Unregistered PBR No. 106.371				
CT-1	Cooling Tower 1	VOC	0.01	0.03
		PM <sub>10</sub>	0.13	0.55
CT-2	Cooling Tower 2	VOC	0.01	0.04
		PM <sub>10</sub>	0.33	1.45
Unregistered PBR No. 106.373				
CH-1	Chiller #1	CFC	0.02	0.08
CH-3	RG-901	CFC	0.19	0.83
CH-4	Chiller #4	VOC	0.06	0.27
Unregistered PBR No. 106.454				
PW-1	Parts Washer	VOC	0.27	0.03
Unregistered PBR No. 106.122				
LAB-1	Laboratory	VOC	2.87	0.15

- (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<sub>x</sub>
    - total oxides of nitrogen
  - SO<sub>2</sub>
    - sulfur dioxide
  - PM
    - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub>
    - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub>
    - particulate matter equal to or less than 2.5 microns in diameter
  - CO
    - carbon monoxide
  - CFC
    - chlorofluorocarbons
  - HCl
    - hydrogen chloride
  - HF
    - hydrogen fluoride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

Date: May 12, 2022

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