

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 80166

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)
Operating Scenario 1. Emissions when RTO online and the source is operating under normal operating conditions:				
1	RTO-1	Butane	1.22	4.10
		PM	<0.01	<0.01
	RTO-1 Products of Combustion	NO <sub>x</sub>	0.28	1.24
		CO	0.24	1.04
		SO <sub>2</sub>	<0.01	<0.01
		PM <sub>10</sub>	0.42	1.85
7	Regrind Silos (Each)	Butane	0.00	0.00
		PM	0.00	0.00
Operating Scenario 2. Emissions during operating conditions authorized in Special Condition No. 7, authorized planned maintenance, start-up, and shutdown activities, when RTO is off-line due to planned maintenance, start-up, and shutdown authorized in this permit. These emissions, normally routed to the RTO, are diverted and exit the fabric filter outlets of the regrind silos:				
1	RTO-1	Butane	0.00	0.00
		PM	0.00	0.00
	RTO-1 Products of Combustion	NO <sub>x</sub>	0.28	<0.02
		CO	0.24	<0.02
		SO <sub>2</sub>	<0.01	<0.01
		PM <sub>10</sub>	0.42	<0.01
7	Regrind Silos (All Silos Combined)	Butane	25.80	0.84
		PM	2.00	0.09
Emissions under Operating Scenarios 1 and 2:				

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2	EXTR-1, Extrusion Area Fan	Butane	10.06	33.90
		Styrene	1.15	3.83
		Ethyl Benzene	0.16	0.54
3	PRINT-1, Print Area Fan	VOC	1.04	3.50
4	FIN-1, Finished Product Storage Fan 1	Butane	3.70	12.50
5	FIN-2, Finished Product Storage Fan 2	Butane	3.70	12.50
6	FIN-3, Finished Product Storage Fan 3	Butane	3.70	12.50
All Sources	All Sources at Site	Individual HAP	--	<10.00
		Total HAPs	--	<25.00

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - 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
  - 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) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: November 19, 2013