

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 110109

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)
FLARE	Flare	VOC	20.90	34.95
		Exempt Solvent	4.07	3.43
		IOC-U	14.98	34.00
		NO <sub>x</sub>	2.87	5.39
		CO	5.74	10.77
		SO <sub>2</sub>	0.03	0.23
BOILER	Boiler	VOC	<0.01	<0.01
		NO <sub>x</sub>	0.03	0.03
		CO	0.03	0.03
		SO <sub>2</sub>	<0.01	0.01
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
HATCH	Railcar Hatch Releases	VOC	5.51	13.14
		IOC-U	0.01	0.04
		Exempt Solvent	1.70	6.81
FUGITIVES	Equipment Leak Fugitives	VOC	0.35	1.53
		IOC-U	0.35	1.53

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HEEL	Railcar Deheeling	VOC	16.98	4.24
		Exempt Solvent	3.63	1.82
		IOC-U	<0.01	<0.01
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
20	North Abrasive Blasting Station	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
21	South Abrasive Blasting Station	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
22	Grit Blast Recycling Unit	PM	0.09	0.38
		PM <sub>10</sub>	0.09	0.38
		PM <sub>2.5</sub>	0.09	0.38
10	Exterior Coating Shop	VOC	49.00	16.70
		Exempt Solvent	46.20	5.36
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01

11	No Bake/Low Bake Interior Lining Shop and Interior Curing Heater No. 1 (4.0 MMBtu/hr)	VOC	49.00	18.09
		Exempt Solvent	46.20	5.81

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		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		Lead	<0.01	<0.01
		VOC (6)	0.02	0.02
		PM (6)	<0.01	<0.01
		PM <sub>10</sub> (6)	<0.01	<0.01
		PM <sub>2.5</sub> (6)	<0.01	<0.01
		SO <sub>2</sub> (6)	0.06	0.06
		NO <sub>x</sub> (6)	0.38	0.42
		CO (6)	0.32	0.35
14/15	Auxiliary Lining Shop (High Bake Lining Shop - North and South) and Interior Curing Heater Nos. 2 and 3 (4.0 MMBtu/hr each)	VOC	27.02	6.71
		Exempt Solvent	29.04	2.31
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		VOC (6)	0.02	0.05
		PM (6)	<0.01	<0.01
		PM <sub>10</sub> (6)	<0.01	<0.01
		PM <sub>2.5</sub> (6)	<0.01	<0.01
		SO <sub>2</sub> (6)	0.06	0.06
		NO <sub>x</sub> (6)	0.38	0.83
		CO (6)	0.32	0.70
All Emission Points at the Site	All Sources at the Site	VOC		<100.00
		Individual HAPS		<10.00
		Total HAPS		<25.00

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- (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
  - IOC-U - inorganic compounds (unspeciated)
  - 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>
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
  - HAPS - 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.
- (6) Combustion emissions.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: May 23, 2016