

Emission Sources - Maximum Allowable Emission Rates

Permit Number 18915

This table lists the maximum allowable emission rates and all sources of air contaminants 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-FIN (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
EP1	WLP Fab vented through a 2.0 MMBtu/hr RC/TO (ASF2)	VOC	0.69	2.98
		Exempt Solvent	0.14	0.62
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC (6)	0.01	0.05
		PM (7)	0.02	0.10
		PM ₁₀ (7)	0.02	0.10
		PM _{2.5} (7)	0.02	0.10
		NO _x (7)	0.24	1.04
		CO (7)	0.18	0.76
		SO ₂ (6)	<0.01	0.01
EP1	WLP Fab Uncontrolled (AFS2)	VOC	13.74	0.58
		Exempt Solvent	2.86	0.12
		PM	0.01	<0.01
		PM ₁₀	0.01	<0.01
		PM _{2.5}	0.01	<0.01
AF1A, AF1B, AF2, AF3A, AF3B, AF4, AF5A, AF5B, and AF5C	WLP Fab vented through Caustic and Acid Scrubbers and Guardian Oxidizers (AF1A, AF1B, AF2, AF3A, AF3B, AF4, AF5A, AF5B, and AF5C)	VOC	0.04	0.18
		Halocarbons	0.02	0.09
		Acids	0.39	1.71
		Bases	0.34	1.49
		Specialty Gases	0.04	0.18
EP1	Calibration Baths (ABB1)	Halocarbons	0.17	0.75

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AST1	Waste Solvent Tank (AST1)	VOC	<0.01	0.04
		Exempt Solvent	<0.01	0.04
ABS2	Boilers 1 (8.2 MMBtu/hr), 2 (8.2 MMBtu/hr), and 3 (12.2 MMBtu/hr) (ABS2)	VOC	0.15	0.63
		PM	0.21	0.87
		PM ₁₀	0.21	0.87
		PM _{2.5}	0.21	0.87
		NO _x	2.80	11.42
		CO	2.36	9.59
		SO ₂	0.02	0.07
GEN02	500 KW 749.2 HP Emergency Generator (GEN02)	VOC	0.06	<0.01
		PM	0.68	0.01
		PM ₁₀	0.68	0.01
		PM _{2.5}	0.68	0.01
		NO _x	14.57	0.22
		CO	0.55	0.01
		SO ₂	1.53	0.02
GEN03	750 KW 1,109 HP Emergency Generator (GEN03)	VOC	0.60	0.01
		PM	0.52	0.01
		PM ₁₀	0.52	0.01
		PM _{2.5}	0.52	0.01
		NO _x	17.61	0.26
		CO	3.23	0.05
		SO ₂	2.27	0.03
AIWT1-3	Wastewater Treatment Tanks 1, 2, and 3 (AIWT1-3)	VOC (8)	<0.01	0.01
All Emission Points	All Sources	Single HAP		<10.00
		All HAP		<25.00

- (1) Emission point identification number from site plan
(2) FIN-Facility Identification Number

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- (3) VOC -volatile organic compounds as defined in Title 30 Texas Administrative Code (30 TAC) § 101.1
- Exempt Solvent -carbon compounds which have been excluded from the definition of VOC and as defined in 30 TAC § 101.1
- PM - total particulate matter suspended in the atmosphere, including PM₁₀ and PM_{2.5}
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- Specialty Gas - materials with specific properties required for non-standard manufacturing processes
- Halocarbon carbon compounds containing halogen(s)
- 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) Rates include planned maintenance, startup, and shutdown emissions.
- (5) Rate is for a rolling 12 consecutive months.
- (6) Emissions from combustion of natural gas
- (7) Emissions from combustion of natural gas and VOC and exempt solvent in the RTO inlet stream
- (8) Fugitive emissions

Date: September 11, 2015