

Emission Sources - Maximum Allowable Emission Rates

Permit Number 44918

This table lists the maximum allowable emission rates and all sources of air contaminants covered by this permit and does not include the PBR sources. 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	Air Contaminant Name (2)	Emission Rates (3)	
			lbs/hour	TPY (4)
12, 13, and 15	Wafer Fabrication	VOC	0.65	2.80
		HAP	0.25	1.08
19	Wafer Fabrication	VOC	4.98	21.32
		Exempt VOC	0.40	1.72
		HAP	0.68	2.89
18, 25, 26, and 29	Wafer Fabrication vented through Acid/Base Scrubbers	VOC	0.02	0.07
		Inorganic Acids	0.03	0.12
		Inorganic Bases	0.28	1.19
		IOC-O	1.12	4.81
		Specialty Gas	0.47	2.02
		HAP	<0.01	0.01
27	Heater (4 MMBtu/hr)	VOC	0.02	0.09
		PM	0.03	0.13
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
		NO _x	0.20	0.86
		CO	0.33	1.44
		SO ₂	<0.01	0.01
		HAP	0.01	0.03

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Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:

30 § TAC 106.102				
03	Boiler (4 MMBtu/hr)	VOC	0.02	0.09
		PM	0.03	0.13
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
		NO _x	0.20	0.86
		CO	0.33	1.44
		SO ₂	<0.01	0.01
30 § TAC 106.511				
EG-1	Emergency Generator (150 kW)	VOC	0.06	0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		NO _x	2.09	0.35
		CO	0.16	0.03
		SO ₂	<0.01	<0.01

Emission Point No. (1)	Source Name	Air Contaminant Name (2)	Emission Rates (3)
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			lbs/hour	TPY (4)
EG-2	Emergency Generator (150 kW)	VOC	0.06	0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		NO _x	2.09	0.35
		CO	0.16	0.03
		SO ₂	<0.01	<0.01
EG-3	Emergency Generator (15 kW)	VOC	<0.01	<0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		NO _x	0.21	0.04
		CO	0.02	<0.01
		SO ₂	<0.01	<0.01

(1) Emission point identification number from plot plan.

(2) Exempt Solvent - exempt carbon compounds as defined in Title 30 Texas Administrative Code § 101.1

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

IOC-O - inorganic compounds (hydrogen, peroxide, dichlorosilane, silane, and boron tribromide)

Specialty Gas - nitrous oxide, tetrafluoromethane, and hexafluoroethane

NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

PM₁₀ - total PM equal to or less than a nominal 10 microns in aerodynamic diameter, including PM_{2.5}

PM_{2.5} - PM equal to or less than a nominal 2.5 microns in aerodynamic diameter

(3) Emission Rates include any maintenance, startup, and shutdown emissions.

(4) Rate is for a rolling 12 consecutive months.

Date: December 11, 2012