

Emission Sources - Maximum Allowable Emission Rates

Permit Number 9459

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 Grouping	Source Group Name	Air Contaminant Name (1)	Emission Rates	
			lbs/hour	TPY (2)
14, 18, 19, 21, 24A, 24B, 27, 62, 67, 116, 140, 143, 144, 145, 146 A/B/C, 147, 08 A/B, 419, 428, 439, 452, 454, and 455	Wafer Fab (HWAFFAB) and Support Facilities	VOC (3)	11.16	19.14
		Exempt VOC (3)	4.58	19.85
		GIC (3)	9.14	36.12
		PM ₁₀ (3)	2.91	12.52
		PM _{2.5} (3)	2.91	12.52
		VOC	111.45 (5)	11.92 (5)
		Exempt VOC	0.63 (5)	0.08 (5)
		PM ₁₀ (4)	0.36	0.84
		PM _{2.5} (4)	0.36	0.84
		NO _x (4)	8.65	30.66
		CO (4)	6.05	23.59
		SO ₂ (4)	0.28	1.09
75, 85, 95, 129, 211, 219, and 316	Central Utility Plant (Seven Boilers and Chiller)	VOC	0.24 (6)	1.05 (6)
		Exempt VOC	1.92	8.44
		PM ₁₀ (4)	1.06 (6)	1.50 (6)
		PM _{2.5} (4)	1.06 (6)	1.50 (6)
		NO _x (4)	6.42 (6)	19.40 (6)
		CO (4)	3.70 (6)	16.13 (6)
		SO ₂ (4)	25.22 (6)	1.24 (6)

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			lbs/hour	TPY (2)
431, 432, and 441	Tanks (Two Fuel Oil and One Spent Solvent)	VOC	0.83	0.82
		Exempt VOC	0.07	0.05
226, 451, and 453	Generators (Three Emergency Power)	VOC (4)	5.8	0.47
		PM ₁₀ (4)	5.17	0.42
		PM _{2.5} (4)	5.17	0.42
		NO _x (4)	72.76	5.88
		CO (4)	15.68	1.27
		SO ₂ (4)	4.81	0.39
All Emission Points	All Source Groups	Single HAP		<10.00
		All HAP		<25.00

- (1) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 Exempt Solvent - exempt solvents as defined in Title 30 Texas Administrative Code § 101.1
 GIC - gaseous inorganic compounds including acids and caustics
 PM₁₀ - total 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
 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

- (2) Rate is for a rolling 12 consecutive months.
 (3) Normal operation with controls (oxidizers and scrubbers)
 (4) Combustion product
 (5) Rate during planned maintenance on thermal oxidizers and gas curtailments
 (6) Rate during burning natural gas and diesel/No. 2 Fuel Oil with diesel/No. 2 Fuel Oil limited to 96 hours per year per boiler

Date: October 15, 2012