

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9459

This table lists the maximum allowable emission rates for all sources 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. 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)	<u>Emission Rates</u>	
			lb/hr	TPY (2)
14, 18, 19, 21, 24A, 24B, 27, 62, 67, 116, 140,143, 144, 145, 146 A/B/C, 147, 08 A/B, 202, 203, 419, 428, 439, 452, 454, and 455	Wafer Fab (HWAFFAB) and Support Facilities	VOC (3)	13.95	26.13
		Exempt VOC (3)	4.61	19.94
		GIC (3)	9.41	36.39
		PM ₁₀ (3)	2.91	12.54
		VOC	111.48 (5)	11.92 (5)
		Exempt VOC	0.63 (5)	0.08 (5)
		GIC	0.73 (6)	0.04 (6)
		PM ₁₀ (4)	0.36	0.84
		NO _x (4)	8.71	30.91
		CO (4)	6.10	23.80
75, 85, 95, 129, 211, 219, and 316	Central Utility Plant (Seven Boilers and Chiller)	SO ₂ (4)	0.28	1.10
		VOC	0.24 (7)	1.05 (7)
		Exempt VOC	1.92	8.44
		PM ₁₀ (4)	1.06 (7)	1.50 (7)
		NO _x (4)	6.42 (7)	19.40 (7)
		CO (4)	3.70 (7)	16.13 (7)
431, 432, and 441	Tanks (Two Fuel Oil and One Spent Solvent)	SO ₂ (4)	25.22 (7)	1.24 (7)
		VOC	0.83	0.82
226, 448, 451, and 453	Generators (Three Emergency Power and One Fire Water Pump)	Exempt VOC	0.07	0.05
		VOC (4)	6.34	0.50
		PM ₁₀ (4)	5.65	0.44
		NO _x (4)	79.58	6.22
		CO (4)	17.15	1.34
All Emission Points	All Source Groups	SO ₂ (4)	5.26	0.41
		Single HAP		<10.00
		All HAP		<25.00

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

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(30 TAC § 101.1)

Exempt VOC	-	exempt solvents as defined in 30 TAC § 101.1
GIC	-	gaseous inorganic compounds including acids and caustics
PM ₁₀	-	particulate matter a nominal 10 microns in aerodynamic diameter
NO _x	-	total oxides of nitrogen
CO	-	carbon monoxide
SO ₂	-	sulfur dioxide
HAP	-	hazardous air pollutant as listed in 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 planned maintenance on HDAO scrubber.
- (7) Rate during burning natural gas and diesel/No. 2 Fuel Oil with diesel/No. 2 Fuel Oil limited to 96 hours/year per boiler.

Dated March 30, 2009