

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point	Source Name	Air Contaminant Name (1)	<u>Emission Rates</u>	
			lb/hr	TPY (2)

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Permit Numbers 16786 and N038

The total emissions of air contaminants from any of the sources listed on this table shall not exceed the stated values.

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Emission Point	Source Name	Air Contaminant Name (1)	<u>Emission Rates</u>	
			lb/hr	TPY (2)
2B, 19A, 19B, 26C, 32A, 32C, 32D, 36, 53A, 53B, 60, 62, S28, 217, 225 204, 205, 206, 207, and SBGEN	South Wafer Fab	VOC	41.07 (4)	26.33 (4)
		Exempt VOC	8.45 (4)	39.34 (4)
		PM	2.20	5.63
		GIC	7.73	22.08
		CO	0.20	0.88
		NO <sub>x</sub>	0.03	
		VOC (3)	0.01	<0.01
		PM (3)	0.09	0.35
		NO <sub>x</sub> (3)	5.94	26.00
		CO (3)	4.83	21.14
		SO <sub>2</sub> (3)	0.05	0.20
101 and 103	Dallas Support Building	VOC	0.36	0.93
		Exempt VOC	0.25	1.10
		GIC	0.01	0.01
11 and 52	Facilities Building	VOC	0.49	2.11
		Exempt VOC	0.10	0.42
		GIC	0.13	0.28
74	Time Building	VOC	1.06	2.30
		GIC	0.15	0.34
238, 239, D5NAM,	DMOS5N Wafer Fab	VOC	35.65 (4)	21.96 (4)

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Emission Point	Source Name	Air Contaminant Name (1)	Emission Rates	
			lb/hr	TPY (2)
D5NAM2, 40E1, 40E2, 40E3, 40E4, DM5NGEN1, and DM5NGEN2		Exempt VOC	13.49 (4)	42.97 (4)
		PM	0.94	3.04
		GIC	4.31	17.04
		CO	0.38	1.68
		NO <sub>x</sub>	0.05	0.22
		VOC (3)	<0.01	<0.01
		PM (3)	0.04	0.14
		NO <sub>x</sub> (3)	2.32	10.14
		CO (3)	2.77	12.11
		SO <sub>2</sub> (3)	0.01	0.02
99, CUP1, CUP2, CUP3, and CUP4	Central Utility Plant	VOC	1.00	4.38
		Exempt VOC	4.95	13.02
		GIC	0.01	<0.01
		VOC (3)	1.93 (5)	8.21 (6)
		PM (3)	7.64 (5)	12.88 (6)
		NO <sub>x</sub> (3)	41.00 (5)	104.05 (6)
		CO (3)	12.69 (5)	55.53 (6)
		SO <sub>2</sub> (3)	177.49 (5)	31.96 (6)
213	Solvent Building	VOC	1.75	6.86
		Exempt VOC	1.00	2.00
		GIC	<0.01	
208, 209, 210, 218, 219, 220, DM5SGEN1, DM5SGEN2, and DM5SGEN3	DMOS5S Wafer Fab	VOC	35.80 (4)	30.96 (4)
		Exempt VOC	15.50 (4)	57.37 (4)
		PM	0.47	2.06
		GIC	4.54	17.58
		CO	0.38	1.68
		NO <sub>x</sub>	0.05	0.22
		VOC (3)	<0.01	<0.01
		PM (3)	0.09	0.35
		NO <sub>x</sub> (3)	7.55	33.06
		CO (3)	6.22	27.24
		SO <sub>2</sub> (3)	0.01	0.02

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			lb/hr	TPY (2)
221A, 221B, 221C 222, 223, 224, and DM6GEN1	DMOS6 Wafer Fab	VOC	4.87	20.38
		Exempt VOC	10.45	45.76
		PM	0.47	2.07
		GIC	6.58	23.11
		CO	0.38	1.68
		NO <sub>x</sub>	0.05	0.22
		VOC (3)	<0.01	<0.01
		PM (3)	0.05	0.17
		NO <sub>x</sub> (3)	1.85	8.12
		CO (3)	2.33	10.21
		SO <sub>2</sub> (3)	0.01	0.01
226, 227A, 227B, 234, and KCGEN	Kilby Wafer Fab	VOC	2.92	11.90
		Exempt VOC	9.36	35.22
		PM	0.73	2.00
		GIC	3.26	13.55
		CO	0.20	0.88
		NO <sub>x</sub>	0.03	0.13
		VOC (3)	<0.01	<0.01
		PM (3)	0.08	0.26
		NO <sub>x</sub> (3)	2.07	9.04
		CO (3)	2.69	11.79
		SO <sub>2</sub> (3)	0.01	0.03
228A, 228B, 228C, 229, 229A, 230, SCGEN1, SCGEN2, and SCGEN3	SC Wafer Fab	VOC	15.06 (4)	13.67 (4)
		Exempt VOC	4.79 (4)	2.36 (4)
		GIC	0.83	3.52
		VOC (3)	<0.01	<0.01
		PM (3)	0.08	0.03
		NO <sub>x</sub> (3)	0.68	1.50
		CO (3)	0.58	1.26
		SO <sub>2</sub> (3)	<0.01	<0.01

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Emission Point	Source Name	Air Contaminant Name (1)	Emission Rates	
			lb/hr	TPY (2)
109, 110, 41200, 72111, 156653, 182206, 182207, 190311, 190312, 190313, 190314, 190315, 190316, 190317, and 202991	15 Boilers (Other than in Central Utility Plant)	VOC (3)	0.77 (5)	3.42 (7)
		PM (3)	3.37 (5)	5.47 (7)
		NO <sub>x</sub> (3)	21.39 (5)	39.96 (7)
		CO (3)	11.89 (5)	51.53 (7)
		SO <sub>2</sub> (3)	45.39 (5)	4.10 (7)
To Be Assigned	Additional Thermal Oxidize	VOC (3)	0.02	0.06
		PM (3)	0.02	0.01
		NO <sub>x</sub> (3)	0.87	3.81
		CO (3)	1.09	4.79
		SO <sub>2</sub> (3)	0.01	0.02
Attachment 1	55 Fuel and Process Material Storage Tanks GIC	VOC	3.06	5.65
		Exempt VOC	0.35	0.44
		0.01	0.01	
No Designations	Degreasers, Cooling Towers, Wastewater Neutralization Systems, Labs, and Cafeterias	VOC	0.51	0.76
		Exempt VOC	0.10	0.01
		GIC	0.01	0.01
All applicable to Sources	South, DMOS5N, DMOS5S, DMOS6, Kilby and SC Wafer Fabs; Dallas Support, Facilities and Time Buildings; and all other TI sources on the site	Single HAP		<10.00
		Multiple HAP		<25.00

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- (1) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1(108) (30 TAC § 101.1) (108)  
Exempt VOC - exempt solvents as defined in 30 TAC § 101.1(28)  
GIC - gaseous inorganic compounds including acids and caustics  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted..  
NO<sub>x</sub> - nitrogen oxides  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
HAP - hazardous air pollutants as identified in Title 40 Code of Federal Regulations Part 63 Subpart C
- (2) Rate is for a rolling 12-consecutive months
- (3) Combustion product
- (4) Includes unabated emissions during scheduled maintenance on thermal oxidizers
- (5) Rate from burning No. 2 Fuel Oil
- (6) Rate from burning natural gas and No. 2 Fuel Oil with the burning of No. 2 Fuel Oil limited to 360 hours per year per four boilers
- (7) Rate from burning natural gas and No. 2 Fuel Oil with the burning of No. 2 Fuel Oil limited to 168 hours per year per boiler for Emission Point Nos. 190311, 190312, 190313, 190314, 190315, 190316, and 190317.

Dated February 24, 2004