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 rates.

Emission	Source A	ir Contaminant	<u>Emission</u>	Rates
Point	Name	Name (1)	lb/hr	TPY (2)
2B, 19A, 19B, 26C, 32A, 32C, 32D, 36, 53A, 53B, 60, 62, S28, 217, 225,	South and Kilby Wafer Fab	VOC VOC	12.99 (4) 41.07 (5) 14.28 (8)	33.23 (4)
204, 205, 206, 207, SBGE	N,	Exer	mpt VOC	17.81 (4)
226, 227A, 227B, 234, and KCGEN	74.22 (4)	Exempt VOC Exempt VOC PM GIC CO NO _x VOC (3) PM (3) NO _x (3) CO (3) SO ₂ (3)	9.90 (5) 13.69 (8) 2.93 10.99 0.40 0.06 0.01 0.17 8.01 7.52 0.06	7.63 35.63 1.76 0.26 0.01 0.61 35.04 32.93 0.23
101 and 103	Dallas Support Building	VOC Exempt VOC GIC	0.36 0.25 0.01	0.93 1.10 0.01
11 and 52	Facilities Building	VOC Exempt VOC GIC	0.30 0.03 0.11	1.24 0.13 0.23
74	Time Building	VOC GIC	1.06 0.15	2.30 0.34

Emission	Source	Air Contaminant	Emission	Rates
Point	Name	Name (1)	lb/hr	TPY (2)
238, 239, D5NAM, D5NAM2, 40E1,	DMOS5 Wafer Fab	VOC VOC	9.81 (4) 71.45 (5)	37.92 (4)
40E2, 40E3, 40E4, DM5NGEN1,		Exempt VOC Exempt VOC	22.89 (4) 28.99 (5)	99.56 (4)
DM5NGEN2, 208,		PM	1.41	5.10
209, 210, 218, 219,		GIC	8.85	34.62
220, DM5SGEN1,		CO	0.76	3.36
DM5SGEN2, and		NO_x	0.10	0.44
DM5SGEN3		VOC (3)	0.01	0.01
		PM (3)	0.13	0.49
		NO_x (3)	9.87	43.20
		CO (3)	8.99	39.35
		SO ₂ (3)	0.02	0.04
CUP1, CUP2,	Central Utility Plant	VOC	1.00	4.38
CUP3, and CUP4		Exempt VOC	4.95	13.02
		GIC	0.01	<0.01
		VOC (3)	1.71 (6)	7.25 (7)
		PM (3)	7.26 (6)	11.21 (7)
		NO_x (3)	36.98 (6)	86.42 (7)
		CO (3)	11.71 (6)	51.24 (7)
		SO ₂ (3)	177.48 (6)	31.94 (7)
213	Solvent Building	VOC	1.75	6.86
	-	Exempt VOC	1.00	2.00
		GIC	<0.01	<0.01

Emission	Source	Air Contaminant	Emission	
<u>Point</u>	Name	Name (1)	lb/hr	TPY (2)
221A, 221B, 221C, 221D, 222, 223, 224, and	DMOS6 Wafer Fab	VOC VOC	4.87 (4) 35.20 (8)	20.38 (4)
DM6GEN1		Exempt VOC Exempt VOC	10.45 (4) 12.95 (8)	45.76 (4)
		PM	0.47	2.07
		GIC	6.58	23.11
		CO	0.38	1.68
		NO_x	0.05	0.22
		VOC (3)	<0.01	<0.01
		PM (3)	0.05	0.17
		$NO_{x}(3)$	1.85	8.12
		CO (3)	2.33	10.21
		SO ₂ (3)	0.01	0.01
228A, 228B, 228C, 229, 229A, 230, SCGEN1, SCGEN2, and SCGEN3	SC Wafer Fab	VOC VOC Exempt VOC Exempt VOC GIC VOC (3) PM (3) NO _x (3) CO (3) SO ₂ (3)	3.10 (4) 15.06 (5) 0.46 (4) 4.79 (5) 0.83 0.01 0.02 0.68 0.58 <0.01	11.67 (4) 2.00 (4) 3.52 0.04 0.06 3.00 2.52 <0.01
S28, 40E1, 40E2, 40E3, 40E4, 210, 218, 221A, 221B, 221C, 221D, 227A, 227B, 228A, 228B, and 228C	South and Kilby, DMOS5, DMOS6, and SC Wafer Fabs	VOC Exempt VOC		22.00 (8) 1.60 (8)

Emission	Source	Air Contaminant	Emission	Rates
Point	Name	Name (1)	lb/hr	TPY (2)
41200, 72111, 156653,		VOC (3)	0.76 (6)	3.26 (9)
182206, 182207, 190311,		PM (3)	3.24 (6)	4.68 (9)
190312, 190313, 190314,		NO _x (3)	19.70 (6)	32.32 (9)
190315, 190316, 190317,		CO (3)	11.49 (6)	49.73 (9)
and 202991		SO ₂ (3)	44.76 (6)	3.95 (9)
To Be Assigned	Additional Thermal Oxidizer	VOC (3) PM (3) NO _x (3) CO (3) SO ₂ (3)	0.02 0.02 0.87 1.09 0.01	0.06 0.01 3.81 4.79 0.02
Attachment 1	55 Fuel and Process	VOC	3.06	5.65
	Material Storage Tanks	Exempt VOC	0.35	0.44
No Designations	Degreasers, Inorganic Storage Tanks, Cooling Towers, Wastewater Neutralization Systems, Labs, and Cafeterias	VOC Exempt VOC GIC PM	0.51 0.10 0.01 0.03	0.76 0.01 0.01 0.15
All applicable to Sources	South and Kilby DMOS5, DMOS6, SC Wafer Fabs, Dallas Support, Facilities and Time Buildings; and all other TI sources on the site			<10.00 <25.00

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

Exempt VOC - exempt solvents as defined in 30 TAC § 101.1.

PM - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

GIC - gaseous inorganic compounds including acids and caustics

 $\begin{array}{cccc} \text{CO} & & - & \text{carbon monoxide} \\ \text{NO}_x & & - & \text{nitrogen oxides} \\ \text{SO}_2 & & - & \text{sulfur dioxide} \end{array}$

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) Rate during normal operation with thermal oxidizer(s).
- (5) Rate during scheduled maintenance on thermal oxidizer(s) or gas curtailments.
- (6) Rate from burning No. 2 fuel oil.
- (7) Rate from burning natural gas and No. 2 fuel oil with the burning of No. 2 fuel oil limited to <u>360</u> hours per year (hrs/yr) per four boilers.
- (8) Rate during scheduled maintenance on thermal oxidizers, gas curtailments, and switching to backup thermal oxidizers.
- (9) Rate from burning natural gas and No. 2 fuel oil. Burning No. 2 fuel oil is limited as follows:

Boiler Location	<u>EPN</u>	<u>Hrs/Yr Limit</u>
DMOS6	190315	168
DMOS6	190316	168
DMOS6	190317	168
DMOS6	190311, 190312, 1903	13, and 190314 504
	CO	mbined

Date: May 5, 2009