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.

Emission	Source	Air Contaminant		Emission Rates	
Point	Name		Name (1)	lb/hr	TPY (2)
2B, 19A, 19B, 26C, 32A, 32C, 32D, 36, 53A, 53B,	South Wafer Fab		VOC VOC	10.07 (4) 41.07 (5)	21.33 (4)
60, 62, S28, 217, 225, 204, 205, 206, 207, and			Exempt VOC Exempt VOC	8.45 (4) 9.90 (5)	39.03 (4)
SBGEN			PM GIC	2.20 7.73	5.63 22.08
			CO	0.20	0.88
		NO _x VOC (0.03	0.13 0.01	<0.01
		PM (3		0.09	0.35
		NO _x (3	,	5.94 4.83	26.00 21.14
		SO ₂ (3	•	0.05	0.20
101 and 103	Dallas Support Buildin	g	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		Air Contaminant <u>Emission Rate</u>	
Point	Name		Name (1)	lb/hr	TPY (2)
238, 239, D5NAM, D5NAM2, 40E1,	DMOS5N Wafer Fab		VOC VOC	4.01 (4) 35.65 (5)	16.96 (4)
40E2, 40E3, 40E4, DM5NGEN1, and			Exempt VOC Exempt VOC	10.44 (4) 13.49 (5)	42.63 (4)
DM5NGEN2			PM	0.94	3.04
			GIC	4.31	17.04
			CO	0.38	1.68
		NO_x	0.05	0.22	
		VOC	• •	<0.01	<0.01
		PM (3	•	0.04	0.14
		NO _x (•	2.32	10.14
		CO (3	•	2.77	12.11
		SO ₂ (3)	0.01	0.02
99, 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)	1.93 (6)	8.21 (7)
		PM (3	3)	7.64 (6)	12.88 (7)
		NO_{x} (3)	41.00 (6)	104.05 (7)
		CO (3	3)	12.69 (6)	55.53 (7)
		SO_2 (3)	177.49 (6)	31.96 (7)
213	Solvent Building	GIC	VOC Exempt VOC <0.01	1.75 1.00 <0.01	6.86 2.00

Emission	Source	Air Contaminant	Emission	<u>Rates</u>
Point	Name	Name (1)	lb/hr	TPY (2)
208, 209, 210, 218, 219, 220, DM5SGEN1,	DMOS5S Wafer Fab	VOC VOC	5.80 (4) 35.80 (5)	20.96 (4)
DM5SGEN2, and DM5SGEN3		Exempt VOC Exempt VOC	12.45 (4) 15.50 (5)	56.93 (4)
		PM	0.47	2.06
		GIC	4.54	17.58
		CO	0.38	1.68
		NO _x 0.05	0.22	
		VOC (3)	<0.01	<0.01
		PM (3)	0.09	0.35
		NO _x (3)	7.55	33.06
		CO (3)	6.22	27.24
		SO ₂ (3)	0.01	0.02
221A, 221B, 221C, 221D, 222, 223, 224,	DMOS6 Wafer Fab	VOC VOC	4.87 (4) 35.20 (8)	20.38 (4)
and DM6GEN1		Exempt VOC Exempt VOC PM 0.47	10.45 (4) 12.95 (8) 2.07	45.76 (4)
		GIC CO NO _x 0.05	6.58 0.38 0.22	23.11 1.68
		VOC (3) PM (3)	<0.01 0.05	<0.01 0.17
		NO _x (3) CO (3) SO ₂ (3)	1.85 2.33 0.01	8.12 10.21 0.01

Emission	Source	Air Contaminant	Emission Rates	
Point	Name	Name (1)	lb/hr	TPY (2)
226, 227A, 227B, 234, and KCGEN	Kilby Wafer Fab	VOC VOC	2.92 (4) 14.28 (8)	11.90 (4)
		Exempt VOC Exempt VOC PM 0.73 GIC 3.26 CO NO _x 0.03 VOC (3) PM (3)	9.36 (4) 13.69 (8) 2.00 13.55 0.20 0.13 <0.01 0.08	0.88 <0.01 0.26
		NO _x (3) CO (3) SO ₂ (3)	2.07 2.69 0.01	9.04 11.79 0.03
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 0.08 0.68 0.58 <0.01	11.67 (4) 2.00 (4) 3.52 <0.01 0.03 1.50 1.26 <0.01
S28, 40E1, 40E2, 40E3, 40E4, 210, 218, 221A, 221B, 221C, 221D, 227A, 227B, 228A, 228B, and 228C	South, DMOS5N, DMOS5S, DMOS6, Kilby, and SC Wafer Fabs	VOC Exempt VOC		22.00 (8) 1.60 (8)
109, 110, 41200, 72111,	15 Boilers (Other than	n in VOC (3)	0.85 (6)	3.64 (9)

Emission	Source	Air	Contaminant	<u>Emissior</u>	n Rates
Point	Name		Name (1)	lb/hr	TPY (2)
156653, 182206, 182207, 190311, 190312, 190313, 190314, 190315, 190316, 190317, and 202991	Central Utility Plant)		PM (3) NO _x (3) CO (3) SO ₂ (3)	3.45 (6) 22.01 (6) 12.80 (6) 46.63 (6)	5.21 (9) 39.57 (9) 55.47 (9) 4.15 (9)
To Be Assigned	Additional Thermal Oxidizer	NO _x (3 CO (3 SO ₂ (3	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 Material Storage Tan	iks GIC	VOC Exempt VOC 0.01	3.06 0.35 0.01	5.65 0.44
No Designations	Degreasers, Cooling Towers, Wastewater Neutralization Systems, Labs, and Cafeterias VOC Exempt VOC GIC PM		Exempt VOC GIC	0.51 0.10 0.01 0.03	0.76 0.01 0.01 0.15
All applicable to Sources	South, DMOS5N, DMOS5S, DMOS6, Kilby and SC Wafer F Dallas Support, Facil andTime Buildings; a other TI sources on t	ities ınd all	Single HAP Multiple HAP		<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 particulate matter greater than 10 microns is emitted.

GIC - gaseous inorganic compounds including acids and caustics

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

- 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> Hours/Year Limit</u>
South	109	168
DMOS6	190315	168
DMOS6	190316	168
DMOS6	190317	168
DMOS6	190311,190312, 190313, and 1903	504 combined

Dated February 10, 2006