Permit No. 16786

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property 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.

Source	Source	Air Contaminant		<u>Emission</u>
Rates *,** Grouping No. (1)	Name (2)	Name (3)		lbs/hr
<u>TPY</u>				
1	South (South Building VOC Stacks)	VOC Non-VOC Acid/Base Reactant Gas PM POC IOFC Other IOFC	25.16 10.70 0.39 0.08 0.40 <0.01 0.03 0.02	49.25 19.01 0.88 0.16 1.00 <0.01 0.03 0.06
2	S28AB (South Building Scrubbers)	VOC Non-VOC Acid/Base Reactant Gas PM POC IOFC Other IOFC	1.11 0.16 0.71 0.58 1.00 <0.01 0.31 0.14	3.89 0.53 1.89 1.29 3.94 0.01 0.26 0.53
3	S28C (South Building Oxidizer)	VOC Non-VOC Acid/Base Reactant Gas PM POC IOFC Other IOFC	7.51 6.08 0.29 0.01 0.73 11.98 0.01 <0.01	14.70 10.80 0.64 0.01 1.60 52.73 0.01 <0.01
4	S204207 (South Building Scrubber)	VOC Non-VOC Acid/Base Reactant Gas PM POC	0.35 0.03 1.21 0.08 1.44 0.31	1.23 0.08 4.63 0.16 5.00 0.54

Emission	Source	Air Contaminant	-	Emission
Rates *,**	Name (O)	Name (O)		lle e /le v
Point No. (1)	Name (2)	Name (3)		lbs/hr
<u>TPY</u>				
		IOFC	0.33	0.28
		Other IOFC	0.21	0.84
			0.21	0.01
5	S109110 (South	Non-VOC	1.11	0.18
	Building	PM	0.06	0.14
	Boilers)	POC	2.84	4.10
	,			
6	C217 (Cavitle	\/OC	2.00	C 41
6	S217 (South	VOC Non-VOC	2.99	6.41
	Building		1.14 0.83	2.20
	Scrubbers)	Acid/Base Reactant Gas	0.83	2.00 0.40
		PM	1.81	4.85
		POC	< 0.01	<0.01
		IOFC	0.06	0.05
		Other IOFC	< 0.01	0.04
		Other for C	\0.01	0.04
7	Floyd (Floyd	VOC	1.33	2.61
	Building VOC	Non-VOC	4.19	7.45
	and Acid Stacks)	Acid/Base	< 0.01	0.01
	•	Reactant Gas	0.01	0.01
		PM	0.01	0.03
		POC	<0.01	<0.01
8	Security	VOC	1.19	2.33
O	(Security	Non-VOC	1.30	2.31
	Building VOC	Acid/Base	0.18	0.39
	and Acid Stacks)	IOFC	0.03	0.03
	and Aoid Glacks)	101 0	0.00	0.00
9	Time (Cooling	VOC	1.24	2.43
	Water Chiller)	Non-VOC	11.25	20.00
	,	Acid/Base	0.30	0.68
		PM	< 0.01	< 0.01
		POC	0.31	0.68
10	Reswest (Research	VOC	7.88	15.41
10	West Building	Non-VOC	5.60	9.95
	VOC and Acid	Acid/Base	1.34	9.95 2.98
	Stacks)	Reactant Gas	0.04	0.09
	Jidonaj	PM	0.28	0.60
			0.20	0.00

Emission	Source	Air Contaminant	-	Emission
Rates *,** Point No. (1)	Name (2)	Name (3)		lbs/hr
<u>TPY</u>				
		POC	<0.01	<0.01
		IOFC	0.11	0.11
12	Chem (Chemical	VOC	0.13	0.24
	Building Acid	Non-VOC	< 0.01	0.01
	and Base Stacks)	Acid/Base	2.14	4.76
		PM	0.01	0.03
		POC	<0.01	< 0.01
		IOFC	0.15	0.13
13	North (North	VOC	0.50	0.98
	Building Acid	Non-VOC	0.24	0.42
	and Base Stacks)	Acid/Base	0.26	0.58
	,	Reactant Gas	< 0.01	0.01
		PM	0.01	0.04
		POC	0.07	0.16
		IOFC	0.01	0.01
14	NorthFug (North	VOC	4.78	9.35
	Building VOC	Non-VOC	2.71	4.82
	Stacks)	Acid/Base	0.05	0.11
	,	IOFC	<0.01	<0.01
15	N215216 (North	VOC	7.45	14.80
	Building VOC	Non-VOC	5.46	9.72
	Stacks)	Acid/Base	0.05	0.11
	,	IOFC	<0.01	<0.01
16	East (DMOS IV	Acid/Base	1.19	2.64
-	Acid Stacks)	Reactant Gas	0.29	0.65
	,	PM	0.54	1.19
		POC	< 0.01	< 0.01
		IOFC	0.75	0.63
		Other IOFC	0.40	1.58

Emission	Source	Air Contaminant		Emission
Rates *,** Point No. (1)	Name (2)	Name (3)		lbs/hr
<u>TPY</u> 17	East 51E (DMOS IV	emergency release only		
	Chemical Dock)			
18	S/C (Semiconductor Building VOC and Acid Stacks)	VOC Non-VOC Acid/Base Reactant Gas PM POC IOFC Other IOFC	11.30 8.16 2.13 0.06 1.25 0.02 0.08 <0.01	21.88 14.52 4.73 0.14 2.76 0.03 0.05 <0.01
19	Reseast (Research East Building VOC and Acid Stacks)	VOC Non-VOC Acid/Base Reactant Gas PM POC IOFC Other IOFC	2.35 0.56 0.46 0.65 0.01 0.20 0.10 0.05	4.60 1.00 1.04 1.44 0.03 0.45 0.09
20	Cup (Central Utility Boiler Building boilers and Chillers)	VOC Non-VOC Acid/Base PM POC	8.84 33.14 0.01 0.84 130.58	17.27 59.91 0.01 1.86 348.40
21	Cup 40E (Central Utility Boiler Building Oxidizer for DMOS IV)	emergency release only		
22	Solvent (Solvent Building VOC	VOC Non-VOC	11.51 4.36	22.51 7.76

Emission	Source	Air Contaminant	, -	Emission
Rates *,** Point No. (1)	Name (2)	Name (3)		lbs/hr
<u>TPY</u>				
	Stacks)	Acid/Base PM POC	0.01 0.01 <0.01	0.01 0.04 <0.01
23	2E208209 (DP1 Building Acid and Base Scrubbers)	VOC Non-VOC Acid/Base Reactant Gas POC IOFC Other IOFC	0.06 0.04 0.49 0.01 <0.01 0.38 0.27	0.14 0.09 1.20 0.03 0.01 0.30 0.03
24	SE210 (DP1 Building Oxidizer)	VOC Non-VOC Acid/Base Reactant Gas PM POC IOFC Other IOFC	4.91 0.25 0.40 0.01 0.14 12.95 0.18 <0.01	12.11 0.44 0.89 0.01 0.31 54.56 0.18 <0.01
25	SL200 (Floyd Road North Building Oxidizer)	VOC Acid/Base POC	0.21 0.01 2.89	0.81 0.05 12.63
26	SL201202 (Floyd Road North Building Acid and PM)	VOC Acid/Base Reactant Gas PM POC IOFC	0.01 1.06 0.03 0.51 3.08 0.33	0.01 4.59 0.03 2.23 6.00 0.33
27	2D218 (DMOS V Building Oxidizer)	VOC Acid/Base POC	2.24 0.03 7.36	8.65 0.09 32.25

AIR CONTAMINANTS DATA

Emission Rates *,**	Source	Air Contaminant		Emission
Point No. (1)	Name (2)	Name (3)		lbs/hr
<u>TPY</u>				
28	2D219220 (DMOS V	VOC	0.04	0.17
	Building	Non-VOC	< 0.01	0.01
	Scrubbers)	Acid/Base	0.08	0.35
	•	IOFC	0.01	0.01

- (1) These are groupings of similar stacks as listed in the source grouping parameter table listed in attachment 1. The emissions are the sum of the stacks in each source grouping.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in General Rule 101.1
 - Non-VOC compounds specifically excluded from the definition of volatile organic compounds as defined in General Rule 101.1

PM - particulate matter

POC - products of combustion including NOx, CO, SO2 and PM

Reactant - silicon and hydride dopants, and molecules of compounds of Gases group IIIb, IVB, and VB elements

Acid/ - organic or inorganic polar acids or bases

Base

IOFC - inorganic fluoride compounds except NF₃ and SF₆

other IOFC - NF3 and SF6

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

** These allowable emission rates represent the potential increases allowed under Special Condition No. 4. If Special Condition No. 4 is not used, then the allowable emission rates are those listed in the revised permit application dated September 20, 1994.

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