

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 16786

The total emissions of air contaminants from any of the sources listed on this table shall not exceed the stated values. 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 sources. The annual emission rates are based on a rolling 12-month period.

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	South (South Building VOCs)	VOC	9.71	14.87
		Exempt VOC	5.63	14.01
		Inorganics	1.10	2.45
		SO _x	<0.01	
2	S28AB (South Building Scrubbers)	VOC	0.13	0.50
		Exempt VOC	1.41	6.18
		Inorganics	1.13	2.94
		POC	0.10	0.41
3	S28C (South Building)	VOC	6.09	12.27
		Exempt VOC	5.12	12.40
		Inorganics	0.26	0.53
		POC	0.25	1.53
4	S204207 (South Building Scrubber)	Exempt VOC	0.03	0.08
		Inorganics	0.64	1.60
5	S109110 (South Building Boilers)	Exempt VOC	0.09	0.20
		Inorganics	<0.01	<0.01
		POC	2.34	10.23
6	S217 (South Building Scrubbers)	VOC	1.45	3.26
		Exempt VOC	3.37	16.67
		Inorganics	4.94	13.61
		POC	0.30	0.61
7	S55 (South Building General Exhaust)	VOC	2.96	6.66
		Exempt VOC	3.52	8.01

Permit No. 16786
Page 2

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
8	SEPI (South Building EPI Reactors and Scrubbers)	Inorganics	0.15	0.50
9	Floyd (Floyd Building VOCs and Acids)	VOC	0.36	0.94
		Exempt VOC	3.49	7.60
		Inorganics	<0.01	0.02
		POC	<0.01	<0.01
10	QTZ (Quartz Shop)	Inorganics	0.14	0.54
11	Security (Security Building VOCs and Acids)	VOC	0.69	1.56
		Exempt VOC	1.12	2.48
		Inorganics	0.16	0.35
12	Time (Cooling Water Chiller)	VOC	1.06	2.21
		Exempt VOC	3.34	7.41
		Inorganics	0.15	0.34
		POC	0.31	0.69
18	D4AC (DMOS-IV Acids)	Inorganics	1.97	5.54
		POC	<0.01	<0.01
		Exempt VOC	15.00	36.07
19	D4AM (DMOS-IV Bases)	Inorganics	1.19	4.51
20	East51E (DMOS-IV Chemical Dock)	emergency release only		
23	Cup (Central Utility Plant Exhaust and Chillers)	VOC	4.39	8.16
		Inorganics	0.05	0.02
		PM	0.69	1.50
		Exempt VOC	8.05	17.55
23	Cup (Central Utility Plant Boilers)	VOC	12.50	54.75
		NO _x	78.35	165.16

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		SO _x 6.85	14.50	
		PM	13.65	28.59
		CO	19.85	88.10
24	Cup 40E (Central Utility emergency release only Plant Emergency Exhaust)			
25	Solvent (Solvent Building 7.63 VOCs)		VOC	4.68
		Exempt VOC	4.73	10.80
		Inorganics	<0.01	0.02
		POC	<0.01	<0.01
26	D5COR (DMOS-V Acid and Base Scrubbers) 6.63	Exempt VOC	3.70	6.00
		Inorganics		1.98
		NO _x	<0.01	<0.01
27	D5VOC (DMOS-V VOCs and Oxidizer)	VOC	7.24	21.63
		Exempt VOC	1.16	4.25
		Inorganics	0.28	0.69
		POC	1.21	4.35
28	D6COR (DMOS-VI Acid and Base Scrubbers)	NO _x	1.20	5.26
		Inorganics	5.23	17.84
		Exempt VOC	0.21	0.49
29	D6VOC (DMOS-VI VOCs and Oxidizer)	VOC	2.03	4.40
		Exempt VOC	0.29	0.46
		POC	0.25	1.08
30	RDICOR (R&D-I Acid and Base Scrubbers)	NO _x	0.70	3.05
		Inorganics	1.29	2.84
		Exempt VOC	1.71	3.74
31	RDIVOC (R&D-I VOCs and Oxidizer)	VOC	0.26	0.69
		Exempt VOC	0.11	0.46

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		POC	0.18	0.78
32	EBGEN (East Building General Stacks)	VOC	1.15	5.00
33	SBST (South Building Solvent Tanks)	VOC	0.33	1.59
		Exempt VOC	0.02	0.08
34	EBST (East Building Solvent Tanks)	VOC	1.02	4.44
		Exempt VOC	0.04	0.18

(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

Exempt VOC - organic compounds specifically excluded from the definition of volatile organic compounds as defined in General Rule 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.

POC - products of combustion including NO_x, CO, SO_x, VOC, and PM Inorganics - inorganic compounds

SO_x - sulfur dioxide

NO_x - nitrogen oxides

CO - carbon monoxide

* The facilities may operate 8,760 hours per year

Permit No. 16786
Page 6

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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Dated _____