EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9459

This table lists the maximum allowable emission rates for all sources covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY (4)
07	EPI Bottle Room	IC	0.37	0.47
08A and 08B	EPI 103, 104, 105, and 106	IC	0.22	0.93
14	Photo	VOC	0.15	0.64
18	WJ002	IC	0.08	0.29
19	WJ001	IC	0.08	0.29
21	Silane Burn Tubes	IC	0.01	0.01
24	Phase II North General Exhausts - 182B37	ES	0.04	0.16
		IC	0.02	0.04
		VOC	0.02	0.08
27	Implant	IC	0.10	0.15
55	South-Side General Exhaust - 106C106	ES	0.08	0.33
		IC	0.01	0.02
		VOC	0.20	0.85
62	South Side General Exhaust - 124B101	IC	0.05	0.05
		VOC	0.03	0.08
67	Surface Analysis Lab	IC	0.02	0.02
		VOC	0.02	0.09
75	B1 Boiler (Boil 1)	PM	0.13	0.37
		VOC	0.07	0.27
		SO_2	4.28	0.14
		NO_x	1.21	4.69
		CO	0.90	3.93
85	B1 Boiler (Boil 2)	PM	0.14	0.58

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY (4)
		VOC	0.10	0.42
		SO_2	0.01	0.05
		NO_x	1.68	7.32
		CO	1.41	6.15
95	B1 Boiler (Boil 3)	PM	0.19	0.44
		VOC	0.08	0.32
		SO_2	6.42	0.20
		NO_x	1.81	5.56
		CO	1.06	4.65
116	Solvent MCV Room	VOC	5.30	0.66
129	Cafeteria Boiler	PM	0.04	0.14
		VOC	0.03	0.10
		SO_2	0.01	0.02
		NO_x	0.42	1.80
		CO	0.35	1.51
133	Source Rebuild Exhaust	IC	0.04	0.04
140	Rotary Concentrator	ES	0.02	0.03
		VOC 0.91	3.12	
		ES (5) 0.10	0.01	
		VOC (5)	17.21	0.44
143	Implant West	IC	0.09	0.14
144	WJ003	IC	0.08	0.29
145	Silane Burn Tube	IC	0.01	0.01
147	Rotary Concentrator	ES	0.01	0.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY (4)
		VOC 0.62	2.07	
		ES (5) 0.11	0.01	
		VOC (5)	19.46	0.50
202	Houston Device Analysis Organization	IC	0.26	0.26
		IC (5)	0.76	
203	Houston Device Analysis Organization	ES	0.02	0.05
		IC	0.02	0.02
		VOC	1.24	0.08
209	B2 Emergency Generator	PM	0.01	0.01
		VOC 0.03	0.01	
		SO_2 0.01	0.01	
		NO_x	1.65	0.09
		CO	2.55	0.13
211	B2 Boiler (Boil 5)	PM	0.01	0.02
		VOC	0.01	0.01
		SO_2	0.01	0.01
		NO_x	0.04	0.16
		CO	0.03	0.13
219	B2 Boiler (Boil 6)	PM	0.06	0.15
		VOC	0.03	0.11
		SO_2	2.14	0.08
		NO_x 0.61	1.82	
		CO	0.35	1.52
303	Welding Shop	IC	0.05	0.05
316	Mod A Boiler (Boil 7)	PM	0.02	0.09

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY (4)
		VOC	0.02	0.07
		SO_2	0.01	0.01
		NO_x	0.27	1.16
		CO	0.23	0.97
419	HF Treatment through Thermal Oxidizer	IC	2.00	7.00
		PM	0.28	0.50
		VOC	0.01	0.01
		SO_2	0.12	0.20
		NO_x	2.79	5.00
		CO	1.12	2.00
425	IW Generators	PM	0.01	0.01
		VOC	0.01	0.01
		SO_2	0.01	0.01
		NO_x	0.60	0.03
		CO	0.93	0.05
428	Thermal Oxidizer	ES	0.02	0.04
		VOC	9.82	14.70
		ES (5)	0.41	0.03
		VOC (5)	219.59	10.98
		PM	0.11	0.42
		SO_2	0.01	0.04
		NO_x	5.44	23.79
		CO	2.88	12.60
431	Fuel Oil Tank	VOC	0.03	0.04
432	Spent Solvent Tank	VOC	0.06	0.12
439	Chlorine Room	IC	0.02	0.01
441	Site Utilities Fuel Oil Tank	Fuel Oil	0.83	0.04

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442	Site Utilities Emergency Generator		PM	0.01	0.01
			VOC	0.12	0.01
			SO_2	0.01	0.01
		NO_x	0.77	0.04	
		CO	3.25	0.17	
448	Diesel Fire Pump		PM	0.84	0.03
		VOC	0.96	0.03	
			SO_2	0.78	0.03
		NO_x	11.73	0.37	
		CO	2.54	0.08	
451	B1 Emergency Generator		PM	2.66	0.30
			VOC	3.04	0.34
			SO_2	2.49	0.28
			NO_x	37.41	4.12
			CO	8.06	0.89
452	Scrubber Yard		IC	3.10	12.54
		ES	5.31	22.57	
		VOC	0.49	2.12	
		SO_2	0.11	0.40	
453	Emergency Generators		PM	1.04	0.06
		VOC	1.19	0.06	
		SO_2	0.97	0.05	
		NO_x	13.89	0.70	
		CO	3.09	0.16	
All	All Sources		Single HAP		<10.00
		Combined HAP			<25.00

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(2) Specific point source names.

(3) IC - non organic compounds including acids, bases, reactives, metals, and reactact gases.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1)
ES - VOC specifically excluded from the definition of VOC as defined in 30 TAC § 101.1
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter.
SO_2 - sulfur dioxide
NO_x - total oxides of nitrogen
CO - carbon monoxide
HAP - hazardous air pollutant as defined in Title 40 Code of Federal Regulations Part 63, Subpart A.

(4) Rate is for a rolling consecutive 12-month period.

(5) Rate for uncontrolled emissions during routine/preventative maintenance.

Dated January 14, 2005