Emission Sources - Maximum Allowable Emission Rates

Permit Number 6995

This table lists the maximum allowable emission rates and all sources of air contaminants 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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point or Grouping No.	Source Name	Air Contaminant Name (1)	Emission Rates	
			lbs/hour	TPY (2)
1SE-3, 1SE-4, and 1SE-5	Fab Building 1 Processes vented through Mixed Stream Scrubbers	Inorganic Compounds	0.65	2.84
		VOC	0.02	0.07
		Exempt Solvents	1.29	5.64
2SE-1, 2SE-2, 2SE-3, 2SE-4, 2SE-5, and 2SE 7	Fab Building 2 Processes vented through Mixed Stream Scrubbers	Inorganic Compounds	0.65	2.84
		VOC	0.02	0.07
		Exempt Solvents	1.29	5.64
4SE-1, 4SE-2, 4SE-3, 4SE-4, 4SE-5, and 4SE 6	Fab Building 4 Processes vented through POU Oxidizers and Acid Scrubbers	Inorganic Compounds	6.49	28.44
		VOC	0.17	0.72
		Exempt Solvents	12.89	56.44
		VOC (3)	0.01	0.06
		PM_{10} (3)	0.02	0.08
		NO_x (3)	0.25	1.11
		CO (3)	0.21	0.94
		SO_2 (3)	<0.01	0.01
4SEA-1 and 4SEA-2	Fab Building 4 Processes vented through Base Scrubbers	Inorganic Compounds	0.03	0.12

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4VE-1	Fab Building 4 Processes vented through a Rotary Concentrator and Thermal Oxidizer (5.0 MMBtu/hr)	VOC	13.49	
		Exempt Solvents	0.28	
		VOC	104.17 (4)	
		Exempt Solvents	2.20 (4)	
		VOC		74.32
		Exempt Solvents		1.55
		VOC (3)	0.03	0.12
		PM_{10} (3)	0.04	0.16
		NO_x (3)	0.49	2.15
		CO (3)	0.41	1.80
		SO_2 (3)	<0.01	0.01
RSE-1 and RSE 2	RO/DI Building Storage Tanks vented through Mixed Stream Scrubbers	Inorganic Compounds	0.04	0.19
2HWB-1	Building 2 Hot Water Heater (0.199 MMBtu/hr)	VOC	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		NO_x	0.02	0.01
		CO	0.01	<0.01
		SO_2	<0.01	<0.01
2BL-1	Building 2 Boiler (13.8 MMBtu/hr)	VOC	0.07	0.04
		PM_{10}	0.10	0.05
		NO_x	1.35	0.68
		CO	1.14	0.57
		SO_2	0.01	<0.01

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4BL-1	Building 4 Boiler 1 (27.57 MMBtu/hr)	VOC	0.15	0.22
		PM_{10}	0.21	0.30
		NO_x	1.62	2.37
		CO	2.27	3.31
		SO_2	0.02	0.02
4BL-2	Building 4 Boiler 2 (27.57 MMBtu/hr) with Low-NO_x Burner	VOC	0.15	0.49
		PM_{10}	0.21	0.67
		NO_x	0.81	2.66
		CO	2.27	7.46
		SO_2	0.02	0.05
4BL-3	Building 4 Boiler 3 (27.57 MMBtu/hr) with Low-NO_x Burner	VOC	0.15	0.49
		PM_{10}	0.21	0.67
		NO_x	0.81	2.66
		CO	2.27	7.46
		SO_2	0.02	0.05
4BL-4	Building 4 Boiler 4 (28.576 MMBtu/hr) with Low-NO_x Burner	VOC	0.15	0.51
		PM_{10}	0.21	0.70
		NO_x	0.84	2.76
		CO	2.35	7.73
		SO_2	0.02	0.06

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4BL-5	Building 4 Boiler 5 (28.576 MMBtu/hr) with Low-NO_x Burner	VOC	0.15	0.22
		PM_{10}	0.21	0.31
		NO_x	0.84	1.23
		CO	2.35	3.44
		SO_2	0.02	0.02
1EG-1	Building 1 Emergency Generator (325 kW)	VOC	0.39	0.01
		PM_{10}	0.34	<0.01
		NO_x	4.90	0.12
		CO	1.05	0.03
		SO_2	<0.01	<0.01
1EG-2	Building 1 Emergency Generator (350 kW)	VOC	0.42	0.01
		PM_{10}	0.37	<0.01
		NO_x	5.25	0.13
		CO	1.13	0.03
		SO_2	<0.01	<0.01
1EG-3	Building 1 Emergency Generator (350 kW)	VOC	0.42	0.01
		PM_{10}	0.37	<0.01
		NO_x	5.25	0.13
		CO	1.13	0.03
		SO_2	<0.01	<0.01

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1EG-4	Building 1 Emergency Generator (250 kW)	VOC	0.30	<0.01
		PM_{10}	0.26	<0.01
		NO_x	3.75	0.09
		CO	0.81	0.02
		SO_2	<0.01	<0.01
2EG-1	Building 2 Emergency Generator (500 kW)	VOC	0.14	0.01
		PM_{10}	0.17	<0.01
		NO_x	5.47	0.14
		CO	1.45	0.04
		SO_2	<0.01	<0.01
2EG-2	Building 2 Emergency Generator (500 kW)	VOC	0.14	0.01
		PM_{10}	0.17	<0.01
		NO_x	5.47	0.14
		CO	1.45	0.04
		SO_2	<0.01	<0.01
4EG-1	Building 4 Emergency Generator (1750 kW)	VOC	0.49	0.01
		PM_{10}	0.60	0.02
		NO_x	19.10	0.48
		CO	5.07	0.13
		SO_2	0.01	<0.01

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4EG-2	Building 4 Emergency Generator (1750 kW)	VOC	0.49	0.01
		PM_{10}	0.60	0.02
		NO_x	19.10	0.48
		CO	5.07	0.13
		SO_2	0.01	<0.01
FP-1	Fire Pump 1 (175 kW)	VOC	0.21	<0.01
		PM_{10}	0.12	<0.01
		NO_x	2.65	0.07
		CO	0.57	0.01
		SO_2	<0.01	<0.01
FP-2	Fire Pump 2 (175 kW)	VOC	0.21	<0.01
		PM_{10}	0.12	<0.01
		NO_x	2.65	0.07
		CO	0.57	0.01
		SO_2	<0.01	<0.01
All EPN	All Sources	Individual HAP		<10.00
		All HAP		<25.00

(1) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101
Exempt Solvent - organic compounds other than VOC as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(2) Rate is for a rolling 12 consecutive months.
(3) Combustion emissions
(4) Uncontrolled rate during maintenance on RCTO

Date: July 9, 2012

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