

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 6995

This table lists the maximum allowable emission rates of all sources of air contaminants covered by this permit. The emission rates shown are those derived from information submitted in the application for permit amendment 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.

AIR CONTAMINANTS DATA

Emission Point or Grouping No.	Source Name	Air Contaminant Name (1)	<u>Emission Rates</u>	
			lb/hr	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
4VE-1	Fab Building 4 Processes vented through a Rotary Concentrator and Thermal Oxidizer (5.0 MMBtu/hr)	VOC	13.49	74.32
		Exempt Solvents	0.28	1.55
		VOC	104.17 (4)	0.12
		Exempt Solvents	2.20 (4)	0.16
		VOC		2.15
		Exempt Solvents		1.80
		VOC (3)	0.03	0.01
		PM ₁₀ (3)	0.04	
		NO _x (3)	0.49	
		CO (3)	0.41	

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SO₂ (3)

<0.01

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Emission Point or Grouping No.	Source Name	Air Contaminant Name (1)	<u>Emission Rates</u>	
			lb/hr	TPY (2)
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
4BL-1	Building 4 Boiler (27.57 MMBtu/hr) with Low-NO _x Burner	VOC	0.15	0.65
		PM ₁₀	0.21	0.90
		NO _x	1.62	7.10
		CO	2.27	9.94
		SO ₂	0.02	0.07
4BL-2	Building 4 Boiler (27.57 MMBtu/hr)	VOC	0.15	0.33
		PM ₁₀	0.21	0.45
		NO _x	0.81	1.78
		CO	2.27	4.97
		SO ₂	0.02	0.04
4BL-3	Building 4 Boiler (27.57 MMBtu/hr) with Low-NO _x Burner	VOC	0.15	0.65
		PM ₁₀	0.21	0.90
		NO _x	0.81	3.55
		CO	2.27	9.94
		SO ₂	0.02	0.07
4BL-4	Building 4 Boiler (28.576 MMBtu/hr) with Low-NO _x Burner	VOC	0.15	0.17
		PM ₁₀	0.21	0.23
		NO _x	0.84	0.92
		CO	2.35	2.58

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		SO ₂	0.02	0.02
4BL-5	Building 4 Boiler (28.576 MMBtu/hr)	VOC	0.15	0.17
		PM ₁₀	0.21	0.23
		NO _x	0.84	0.92
		CO	2.35	2.58
		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
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

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		NO _x	5.47	0.14
		CO	1.45	0.04
		SO ₂	<0.01	<0.01
2EG-3	Building 2 Emergency Generator (300 kW)	VOC	0.36	<0.01
		PM ₁₀	0.32	<0.01
		NO _x	4.50	0.11
		CO	0.97	0.02
		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
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 (TAC) § 101.1
- Exempt Solvent - organic compounds other than VOC as defined in Title 30 TAC § 101.1
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide

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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 (40 CFR) Part 63, Subpart C

- (2) Rate is for a rolling 12 consecutive months
- (3) Combustion emissions
- (4) Uncontrolled rate during maintenance on RCTO

Dated April 26, 2010