

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20807

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY*
1A	Preheater/Incinerator (5)	PM/PM ₁₀	2.39	8.72
		PM _{2.5}	2.28	8.30
		NO _x	5.03	20.71
		CO	21.54	78.92
		SO ₂	24.01	85.33
		VOC	1.26	4.62
		HCl	0.24	0.84
		Benzene (6)	0.14	0.50
		Ethyl Benzene (6)	0.28	0.98
		HAPs	0.06	0.28
3	Boiler (5)	PM/PM ₁₀	0.05	0.23
		NO _x	0.68	3.00
		CO	0.57	2.51
		SO ₂	<0.01	0.02
		VOC	0.04	0.16
		HAPs	0.01	0.06
29	Loading Rack Fugitives (4)(7)	PM/PM ₁₀	0.07	0.09
		PM _{2.5}	0.06	0.08
		CO	<0.01	<0.01
		VOC	0.23	0.30
30	Loading Rack Fugitives (4)(7)	PM/PM ₁₀	0.07	0.09
		PM _{2.5}	0.06	0.08
		CO	<0.01	<0.01
		VOC	0.23	0.30
31	BD Oil Loading (4)	VOC	0.13	0.56

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33	Asphalt Solvent Cold Cleaner (4)	VOC	0.12	0.50
8	Tank 5 Heater Stack (5)	PM/PM ₁₀	0.01	0.03
		NO _x	0.08	0.34
		SO ₂	<0.01	<0.01
		CO	0.07	0.29
		VOC	<0.01	0.02
		HAPs	<0.01	0.01
10	Tank 100 Heater Stack (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
12	Tank 202 Heater Stack (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
63	Tank 401A Heater Stack (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
64	Tank 401B Heater Stack (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
65	Tank 402A Heater Stack (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01

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		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
66	Tank 402B Heater Stack (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
HEATER	Thermal Liquid Heater Stack	PM/PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
		NO _x	0.39	1.72
		CO	0.66	2.89
		SO ₂	0.01	0.02
		VOC	0.04	0.19
VCU	Vapor Combustor Stack	PM/PM ₁₀	0.07	0.19
		PM _{2.5}	0.08	0.19
		NO _x	0.40	1.76
		CO	0.34	1.49
		SO ₂	<0.01	0.01
		VOC	0.16	0.29
69	Loading Rack Fugitives (4)(7)	PM/PM ₁₀	0.02	0.01
		PM _{2.5}	0.05	0.01
		CO	<0.01	<0.01
		VOC	0.05	0.03

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

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

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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
CO	- carbon monoxide
HCl	- hydrogen chloride
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

(4) Fugitive emissions are an estimate only.

(5) Hazardous air pollutant (HAP) emissions are included in the PM and VOC allowable emission rates, and the speciated values are reflected on the Table 1(a) submitted with the permit amendment application. When a HAP compound hourly emission rate exceeded 0.04 pound per hour, the compound and its emission rate were listed on the maximum allowable emission rates table; however, the HAP compound emissions are also included in the PM and VOC emission rates.

(6) Included in PM and VOC emission rates.

(7) Emission rates are the sum of the emissions for all the listed emission points.

* Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 30, 2010