

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 48921

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)	Emission Rates *	
			lb/hr	TPY**
ACET-1A	Decanter	CO	4.8	20.1
		VOC 12.9	48.8	
ACET-1B	Cooling Tower	CO	0.23	0.37
		VOC 40.8	107.4	
ACET-2A-1	Oxygen Preheater	CO	0.27	1.20
		NO _x	0.32	1.40
		PM ₁₀ 0.03	0.11	
		SO ₂ 0.01	0.01	
		VOC 0.02	0.08	
ACET-2A-2	Oxygen Preheater	CO	0.27	1.20
		NO _x	0.32	1.40
		PM ₁₀ 0.03	0.11	
		SO ₂ 0.01	0.01	
		VOC 0.02	0.08	
ACET-2A-3	Oxygen Preheater	CO	0.27	1.20
		NO _x	0.32	1.40
		PM ₁₀ 0.03	0.11	
		SO ₂ 0.01	0.01	
		VOC 0.02	0.08	
ACET-2A-4	Oxygen Preheater	CO	0.35	1.52
		NO _x	0.42	1.90
		PM ₁₀ 0.04	0.14	
		SO ₂ 0.01	0.01	
		VOC 0.03	0.10	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ACET-2A-5	Oxygen Preheater	CO	0.35	1.52
		NO _x	0.42	1.90
		PM ₁₀	0.14	
		SO ₂	0.01	
		VOC	0.10	
ACET-2B-1	Natural Gas Preheater	CO	0.70	3.10
		NO _x	0.84	3.70
		PM ₁₀	0.28	
		SO ₂	0.01	
		VOC	0.21	
ACET-2B-2	Natural Gas Preheater	CO	0.70	3.10
		NO _x	0.84	3.70
		PM ₁₀	0.28	
		SO ₂	0.01	
		VOC	0.21	
ACET-2B-3	Natural Gas Preheater	CO	0.70	3.10
		NO _x	0.84	3.70
		PM ₁₀	0.28	
		SO ₂	0.01	
		VOC	0.21	
ACET-2B-4	Natural Gas Preheater	CO	0.98	4.30
		NO _x	1.2	5.10
		PM ₁₀	0.39	
		SO ₂	0.01	
		VOC	0.28	
ACET-2B-5	Natural Gas Preheater	CO	0.98	4.30
		NO _x	1.2	5.10
		PM ₁₀	0.39	
		SO ₂	0.01	
		VOC	0.28	
ACET-3	Vent Gas Flare	CO	0.95	0.66

			NO _x	0.09	0.07
		VOC	0.27	0.12	
ACET-4	Raw Gas Flare		CO	557.3	31.5
			NO _x	38.9	2.5
		VOC	89.0	4.8	
ACET-5	Tail Gas Flare		CO	633.6	883.0
			NO _x	32.2	44.9
		VOC	4.9	6.8	
ACET-6	Product Flare		CO	61.3	14.9
			NO _x	8.5	2.1
		VOC	82.9	20.0	
ACET-7	HA Gas Flare		CO	37.5	60.2
			NO _x	4.3	6.6
		VOC	32.4	60.0	
ACET-8-2	Raw Gas Compressor (5)		CO	10.4	41.0
			NO _x	43.2	169.9
		PM ₁₀	0.60	2.30	
		SO ₂	0.01	0.01	
		VOC	1.8	7.0	
ACET-10	Polymer Box		VOC	1.1	0.39
ACET-12-1	Coke Separator		CO	0.01	0.01
		VOC	0.01	0.02	
ACET-12-2	Coke Separator		CO	0.01	0.01
		VOC	0.01	0.02	
ACET-12-3	Coke Separator		CO	0.01	0.01
		VOC	0.01	0.02	
ACET-12-4	Coke Separator		CO	0.01	0.01
		VOC	0.01	0.02	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
ACET-12-5	Coke Separator	CO	0.01	0.01
		VOC0.01	0.02	
ACET-17607	NMP Storage Tank	VOC	0.01	0.03
ACET-DTK-4	Screw Drain Tank	CO	0.01	0.03
		VOC0.01	0.02	
ACET-DTK-5	Screw Drain Tank	CO	0.01	0.03
		VOC0.01	0.02	
ACET-JETB	Evaporator Jets	VOC	0.01	0.03
ACET-JETP	Evaporator Jets	VOC	0.01	0.03
ACET-LOOPS	Loop Seals (6)	CO	1260.0	10.3
		VOC428.5	3.6	
ACET-TK-1	NMP Surge Tank	VOC	0.01	0.01
ACET-TK-2	NMP North Make Tank	VOC	0.01	0.01
ACET-TK-3	NMP South Make Tank	VOC	0.01	0.01
ACET-TK-4	NMP Run Tank	VOC	0.01	0.01
ACET-FUG	Process Fugitives (4)	CO	2.81	11.94
		VOC2.82	11.98	

EMISSIONS FROM SOURCE(S) MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

- (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) CO - carbon monoxide
 NO_x - total oxides of nitrogen
 PM₁₀ - particulate matter equal (PM) 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.
 SO₂ - sulfur dioxide
 VOC - volatile organic compounds as defined in the Title 30 Texas Administrative Code § 101.1.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) This compressor will be permanently shutdown by January 1, 2007.
- (6) This source will be permanently shutdown by December 31, 2003.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

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