



EMISSIONS INVENTORY INFORMATION

For Inventory Year - 2011

PETROLEUM REFINERY - FUGITIVE EMISSION

Company Name _____ **Contact Initials** _____

Please fill in all spaces and provide supporting data as noted. Retain a copy for your records.

Device Description leak rate		Gas ⁽¹⁾				Light Liquid ⁽²⁾				Heavy Liquid ⁽³⁾			
		No. of devices ⁽⁴⁾	Hours ⁽⁵⁾	Emfac ⁽⁶⁾	VOCs (lb/yr) ⁽⁷⁾	No. of devices ⁽⁴⁾	Hours ⁽⁵⁾	Emfacs ⁽⁶⁾	VOCs (lb/yr) ⁽⁷⁾	No. of devices ⁽⁴⁾	Hours ⁽⁵⁾	Emfacs ⁽⁶⁾	VOCs (lb/yr) ⁽⁷⁾
Valves	< 10,000			1.32 E-3				3.75 E-3				5.07 E-4	
	> 10,000			5.79 E-1				1.88 E-1				5.07 E-4	
Pump seals	< 10,000	-----	-----	-----	-----			2.65 E-2				2.98 E-2	
	> 10,000	-----	-----	-----	-----			9.64 E-1				8.57 E-1	
Compressor seals	< 10,000			1.97 E-1		-----	-----	-----	-----	-----	-----	-----	-----
	> 10,000			3.55 E0		-----	-----	-----	-----	-----	-----	-----	-----
Pressure relief valves	< 10,000			9.86 E-2		-----	-----	-----	-----	-----	-----	-----	-----
	> 10,000			3.73 E0		-----	-----	-----	-----	-----	-----	-----	-----
Connectors ⁽⁸⁾	< 10,000			1.32 E-4				1.32 E-4				1.32 E-4	
	> 10,000			8.27 E-2				8.27 E-2				8.27 E-2	
Open ended lines ⁽⁹⁾	< 10,000			3.31 E-3				3.31 E-3				3.31 E-3	
	> 10,000			2.63 E-2				2.63 E-2				2.63 E-2	
TOTALS:													
		Wt%:				API Gravity:				API Gravity:			

- (1) Hydrocarbon gas/vapor stream. Excludes gas purchased from Public Utility. **Provide data verifying wt% methane/ethane. Form is not complete without this data.**
- (2) Light oil stream with an API gravity equal to or greater than 20 at 60°F. **Provide recent data verifying API gravity. Form is not complete without this data.**
- (3) Heavy oil stream with an API gravity less than 20 at 60°F. **Provide recent data verifying API gravity. Form is not complete without this data.**
- (4) The count should be consistent with I&M plans or the Air Toxics Hot Spots program plan/report.
- (5) Total Hours for each applicable device and stream must equal 8760 hours/yr. No component is considered leak-free. Non-leaking hours of operation are to be included in < 10,000.
- (6) Emission factors are from: Cal. Implementation Guidelines for Est. Mass Emissions of Fug. Hydrocarbon Leaks at Petrol. Facilities, Feb 1999, Table IV-2a.
- (7) To estimate VOCs multiply the No. of devices x Hours x Emfac for both non-leaking and leaking devices. **In this form VOCs do NOT include methane or ethane.**
- (8) Include all threaded connectors and tubing fittings, regardless of size.
- (9) An open-ended line is the end of any valve that can be opened to the atmosphere.