



San Joaquin Valley Unified Air Pollution Control District Supplemental Application Form



Flares

Please complete one form for each flare.

This form must be accompanied by a completed Authority to Construct/Permit to Operate Application form

PERMIT TO BE ISSUED TO:
FLARE LOCATION (STREET ADDRESS or ¼ SECTION, TOWNSHIP, & RANGE or LAT/LONG):

PROCESS DESCRIPTION

Process Data	Gas Streams/Processes the Flare Serves (include permit number(s), if applicable):	
	Is the flare gas pressure \geq 5 psig? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Maximum Potential Flare Gas Flowrate: _____ acf/hr, _____ acf/day, _____ acf/year	
	Is this a municipal landfill flare? <input type="checkbox"/> Yes <input type="checkbox"/> No	Is this an emergency flare? <input type="checkbox"/> Yes <input type="checkbox"/> No

EQUIPMENT DESCRIPTION

Tip Data	Tip Manufacturer:	Tip Model:
	Serial No.:	Tip Manufacturer's rated capacity: _____ (MMcf/hr)
	Tip Opening Cross Sectional Area: _____ (ft ²)	
Flare Design and Emission Control Equipment	<input type="checkbox"/> Air-assist flare, _____ scfm of assist air	
	<input type="checkbox"/> Steam assist flare, _____ lb/min of assist steam	
	<input type="checkbox"/> Coanda effect flare	
	<input type="checkbox"/> Other type of flare (please provide details):	
	Smokeless Operation? <input type="checkbox"/> Yes <input type="checkbox"/> No, Source:	
Flare Emissions Data	NO _x Emission Factor: _____ (lb/MMBtu)	
	PM ₁₀ Emission Factor: _____ (lb/MMBtu)	
	CO Emission Factor: _____ (lb/MMBtu)	
	VOC Emission Factor: _____ (lb/MMBtu)	
	VOC destruction efficiency: _____ %	
Source of Data	<input type="checkbox"/> Manufacturer's Specifications <input type="checkbox"/> Emissions Source Test <input type="checkbox"/> AP-42 <input type="checkbox"/> Other _____ Note: please provide copies of all sources of emissions data.	

FLARED GAS DATA

Flared Gas Data	Fuel Type:		
	Flare Gas Fuel Flow Meter? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Higher Heating Value: _____ Btu/scf	Sulfur Content: _____ gr/100 scf	
	Carbon to Hydrogen ratio:		
	Percent weight of hydrocarbons heavier than pentane (please attach gas analysis):		

PILOT EQUIPMENT AND FUEL DATA

Pilot Type	Intermittent <input type="checkbox"/>	Continuous <input type="checkbox"/>	Automatic (Flow Sensing) Ignition System <input type="checkbox"/>	Heat Sensing Ignition System <input type="checkbox"/>
Pilot Fuel Data	Type of pilot gas fuel (e.g., LPG/propane, methane, or process gas stream):			
	Pilot Fuel Consumption: _____ (scf/hr)		Sulfur Content: _____ gr/100 scf	
	Pilot Gas Fuel Flow Meter: <input type="checkbox"/> Yes <input type="checkbox"/> No			

GAS SULFUR TREATMENT (if applicable)

Sulfur Treatment System	Type of system (submit manufacturer's documentation):		
	Control Efficiency: _____ %, Source:		
	Outlet sulfur concentration: _____ ppmw or gr-S/100 scf, Source:		

HEALTH RISK ASSESSMENT DATA

Operating Hours	Maximum Operating Schedule: _____ hours per day, and _____ hours per year		
Receptor Data	Distance to nearest Residence	_____ feet	Distance is measured from the proposed flare location to the nearest property line of the nearest apartment, house, dormitory, etc.
	Direction to nearest Residence	_____	Direction from the flare to the receptor, i.e. Northeast or South.
	Distance to nearest Business	_____ feet	Distance is measured from the proposed flare location to the nearest property line of the nearest office building, factory, store, etc.
	Direction to nearest Business	_____	Direction from the flare to the receptor, i.e. North or Southwest.
Facility Location	<input type="checkbox"/> Urban (area of dense population) <input type="checkbox"/> Rural (area of sparse population)		
Select the Appropriate Flare Type and Fill Out the Required Modeling Parameters			
Flare Type	<input type="checkbox"/> Open Flare ¹	<input type="checkbox"/> Partially Enclosed Flare ²	<input type="checkbox"/> Enclosed Flare ³
Flare Tip Height	_____ feet above grade	_____ feet above grade	N/A
Enclosure Height	N/A	_____ feet above grade	_____ feet above grade
Velocity	N/A	Flowrate: _____ acfm	Flowrate: _____ acfm
Diameter	_____ inches at flare tip	_____ inches at flare tip	_____ inches at enclosure opening
Temperature	_____ °F	_____ °F	_____ °F

¹ A vertically or horizontally oriented open pipe flare from which gases are released into the air before combustion is commenced.

² A flare composed of gas burner(s) within an enclosure such that the flame is visible beyond the end of the enclosure when active.

³ A flare composed of gas burner(s) within an enclosure such that the flame is **not** visible beyond the end of the enclosure when active.