

**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 Application for Authority to Construct and Permit to Operate form.*

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

**PROCESS DESCRIPTION**

<b>Process Data</b>	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**

<b>Tip Data</b>	Tip Manufacturer:	Tip Model:
	Serial No.:	Tip Manufacturer's rated capacity: _____ (MMcf/hr)
	Tip Opening Cross Sectional Area: _____ (ft <sup>2</sup> )	
	Is this a ground level flare? <input type="checkbox"/> Yes <input type="checkbox"/> No	Is this an enclosed flare? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Flare Design and Emission Control Equipment</b>	<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:	
<b>Flare Emissions Data</b>	NO <sub>x</sub> Emission Factor: _____ (lb/MMBtu)	
	PM <sub>10</sub> Emission Factor: _____ (lb/MMBtu)	
	CO Emission Factor: _____ (lb/MMBtu)	
	VOC Emission Factor: _____ (lb/MMBtu)	
	VOC destruction efficiency: _____ %	
<b>Source of Data</b>	<input type="checkbox"/> Manufacturer's Specifications <input type="checkbox"/> Emissions Source Test <input type="checkbox"/> AP-42 <input type="checkbox"/> Other _____ <b>Note: please provide copies of all sources of emissions data.</b>	

### FLARED GAS DATA

<b>Flared Gas Data</b>	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

<b>Pilot Type</b>	Intermittent <input type="checkbox"/>	Continuous <input type="checkbox"/>	Automatic (Flow Sensing) Ignition System <input type="checkbox"/>	Heat Sensing Ignition System <input type="checkbox"/>
<b>Pilot Fuel Data</b>	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)

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

### HEALTH RISK ASSESSMENT DATA

<b>Operating Hours</b>	Maximum Operating Schedule: _____ hours per day, and _____ hours per year	
<b>Receptor Data</b>	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.
<b>Exhaust Parameters</b>	Release Height	_____ feet above grade
	Direction of Flow	<input type="checkbox"/> Vertically Upward <input type="checkbox"/> Horizontal <input type="checkbox"/> Other: _____ ° from vert. or _____ ° from horiz.
<b>Exhaust Data</b>	Flowrate: _____ acfm	Temperature: _____ °F
<b>Facility Location</b>	<input type="checkbox"/> Urban (area of dense population) <input type="checkbox"/> Rural (area of sparse population)	