



**OILFIELD FLARES**

Complete a separate form for each flare. Attach manufacturer's literature, if available, to this form.

**Information on Flare**

Reason for Submitting this Form (Check One)	<input type="checkbox"/> Existing Flare Date of Installation _____	<input type="checkbox"/> Replacement of Existing Flare Specify _____ <input type="checkbox"/> New or Additional Flare
Flare Location (Include map, aerial photo, or plot plan)		
Flare Make and Model		
Flare Rated Capacity	_____ <input type="checkbox"/> MMBtu/hr	<input type="checkbox"/> scf/hr
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
Flare height above grade	_____ feet	
Flare tip exhaust diameter	_____ <input type="checkbox"/> feet (OR)	<input type="checkbox"/> inches
Flare equipped with a totalizing gas flow meter?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Smokeless Operation?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Air-Assist Flare?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Steam-Assist Flare?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Coanda Effect Flare?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is flare emission factor data available? (Attach)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Flare Pilot Information**

Specify the type of pilot:		
If gas pilot, total rating?	_____ <input type="checkbox"/> MMBtu/hr	<input type="checkbox"/> scf/hr
If gas pilot, equipped with a totalizing gas flow meter?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Flared Gas Data**

Higher heating value	_____ Btu/scf	
Maximum Sulfur Content	_____ <input type="checkbox"/> ppm <sub>v</sub>	<input type="checkbox"/> grains per 100 scf
Is the flare or process equipped with treatment equipment to meet above sulfur content? If yes, describe.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5 year maximum gas combustion Attach records	_____ <input type="checkbox"/> MMBtu/yr	<input type="checkbox"/> scf/yr

**Information on Process**

Describe the Process/Equipment the Flare Serves		
Is this an Emergency Flare?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is Flare used for Planned Flaring?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Flare included in a Planned Flare Management Plan per Rule 54?	<input type="checkbox"/> Yes	<input type="checkbox"/> No



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## INSTRUCTIONS FOR OILFIELD FLARE FORM 001

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*Please make a copy and complete Form OilfieldFlareForm001 for each flare. Include all available data and information.*

A recent change to Section A.4 of Rule 23, “Exemptions from Permit”, now requires an APCD permit for all flares rated at greater than or equal to 1.00 MMBtu/hr on and after July 1, 2011. The APCD understands that all data may not be available for older flares. Include all available data and include manufacturer’s literature if available. Note that Unplanned Flaring Events and Planned Flaring Events are subject to Rule 54, “Sulfur Compounds”.

*Information on Flare* - Indicate the reason for submitting the application: replacement of an existing flare, a new or additional flare, or a permit for an existing unpermitted flare. If the application is for replacement, specify the affected flare. If the application is for an existing unpermitted flare, indicate the date that the flare was installed at your facility. Describe the flare location and enclose a map, aerial photo, or plot plan. Identify the flare and the nearest property line on your submittal. Please provide the flare’s make and model. Indicate the flare’s maximum rated capacity and indicate if it is in million Btu per hour (MMBtu/hr) or standard cubic feet per hour (scf/hr). If there is no nameplate capacity, report the lease’s highest monthly gas production for the period between July 1, 2010 and June 30, 2011 as reported to California’s Division of Oil, Gas and Geothermal Resources. Indicate if the flare is a ground level flare and if it is an enclosed flare. Indicate the height of the flare above grade, in feet. Specify the flare tip exhaust diameter and indicate the units, feet or inches. Indicate whether the flare is equipped with a totalizing gas flow meter. Please note that the APCD will require the operation of a totalizing gas meter to demonstrate compliance with the annual gas consumption limit. Indicate if emission factor data for the flare is available. If it is, please attach a copy of the available data. If not, the APCD will use standard oilfield flare emission factors for calculating permitted emissions.

*Flare Pilot Information* – Specify the type of pilot for the flare: spark ignited, electronic ignition, flow sensing, continuous gas pilot, or describe other system. If the flare is equipped with a gas pilot, indicate the total rating in MMBtu/hr or scf/hr. Also, if the flare is equipped with a gas pilot, indicate if it is equipped with a totalizing gas flow meter.

*Flared Gas Data* – Indicate the higher heating value of the flared gas in BTU/scf. Specify the maximum sulfur content of the gas and indicate whether it is in parts per million by volume (ppmv) or grains per 100 standard cubic feet (grains per 100 scf). Indicate whether the flare or the process it serves is equipped with treatment equipment to meet the specified sulfur level. If there is sulfur treatment equipment, describe the type.

Rule 29, “Conditions on Permits”, requires that the APCD permit for the flare include permitted emissions and a permit condition that limits the annual gas consumption in both the flare, and the flare’s gas pilot, if applicable. The APCD permit will place a gas consumption limit on routine flaring and “Planned Flaring Events”, but will not limit “Unplanned Flaring” or flaring due to emergency safety situations, power outages, or equipment breakdowns. The APCD will require the

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operation of a totalizing gas meter to demonstrate compliance with the annual gas consumption limit.

As required by Rule 29.B.3.a for Rule 23 changes, annual permitted emissions for the flare shall be calculated as 1.2 times the maximum emissions from the flare during any 12 month consecutive period in the five (5) years immediately prior to this application for the flare's permit.

Please provide the five (5) year gas consumption data for the flare, and for the flare's gas pilot if applicable. Include copies of monthly gas meter records as necessary to support your submittal. If the flare has not been operated with a gas flow meter, include other data, such as hours of operation or gas sales records, to substantiate historical flare gas consumption.

*Information on Process* – Provide a description of the process that is served by the flare. Indicate whether the flare is an emergency flare and whether it is used for planned flaring. *A Planned Flaring Event is NOT use of the flare that occurs as a result of an unforeseen process upset or an equipment malfunction or breakdown. A Planned Flaring Event includes, but is not limited to, routine flaring to comply with Rule 71.1, "Crude Oil Production and Separation"; or flaring due to planned maintenance performed on wells, equipment, or pipelines by the operator or performed by another operator accepting the produced gas.* Indicate whether the flare is included in a Planned Flare Management Plan as required by APCD Rule 54.