

DAQ Use Only

Form SS-PER-008-04: Flare Worksheet

Please see instructions on page 3 before filling out the form.

Supplemental Information

IDENTIFICATION	
1. Source Name:	2. Source ID No.:
3. Brief description of project:	
SPECIFICATIONS	
4. Manufacturer:	
5. Model No.:	
6. Serial No.:	
7. Date of manufacture:	
8. Flare type (check all that apply): <input type="checkbox"/> Ground <input type="checkbox"/> Elevated <input type="checkbox"/> Open <input type="checkbox"/> Partially enclosed <input type="checkbox"/> Enclosed	
9. Emergency flare: <input type="checkbox"/> Yes <input type="checkbox"/> No	
10. Mixing method: <input type="checkbox"/> Steam injected <input type="checkbox"/> Compressed air <input type="checkbox"/> Fuel gas <input type="checkbox"/> Other (specify):	
11. Maximum design heat rate (in Btu/hr):	
12. Rated control efficiency (%):	Pollutant controlled:
13. Flare gas type:	
Higher heat value of flare gas (Btu / ft ³):	Maximum flare gas flow rate (ft ³ / hr):
Flare gas fuel flow meter: <input type="checkbox"/> Yes <input type="checkbox"/> No	Sulfur content of flare gas (gr/100 ft ³):
14. Pilot type: <input type="checkbox"/> Intermittent <input type="checkbox"/> Continuous <input type="checkbox"/> Automatic Ignition System (flow sensing) <input type="checkbox"/> Heat Sensing Ignition System	
Type of pilot gas fuel: <input type="checkbox"/> Natural gas <input type="checkbox"/> LPG/propane <input type="checkbox"/> Methane <input type="checkbox"/> Other (specify):	
Pilot fuel consumption (ft ³ / hr):	Pilot gas fuel flow meter: <input type="checkbox"/> Yes <input type="checkbox"/> No
Sulfur content of pilot gas: (gr/100 ft ³):	
15. Emission unit(s) or source(s) of emissions vented to the flare:	
16. Flare tip height: _____ ft above grade	
Flared gas temperature (°F):	Flared gas flow rate (ft ³ / min):
Flare height if different from tip height (ft):	Flare diameter (ft):
17. Maximum rated emissions concentrations (circle unit of measure: ppm , lb/hr , or lb/MMBtu):	
NO _x	SO ₂
CO	PM/PM ₁₀
	VOC
18. Source for emissions factor: <input type="checkbox"/> Manufacturer's specifications <input type="checkbox"/> Emissions source test <input type="checkbox"/> AP-42	
<input type="checkbox"/> Other (specify):	

19. Gas stream composition:

COMPONENT	VOL %, MOLE % or WEIGHT % (circle the one that applies)

Attach manufacturer's specification sheet(s) for the flare. Include flare emissions in the PTE calculation.

All information above this line is required for this form to be considered complete. Duplicate sheet as needed.

The information in this section guides you to other forms that may have to accompany this worksheet.

- For emission control equipment, use the appropriate **CONTROL EQUIPMENT** form (Baghouse: SS-PER-008-01, Particulate Control Equipment: SS-PER-008-05, Scrubber: SS-PER-008-06) and duplicate as needed. Be sure to indicate the emission unit that the control equipment is affecting.
- Use the Engine form (SS-PER-007-03) if not operating on grid power and/or if there is an engine on-site.

Form Instructions

Before filling out this worksheet, locate the **Supplemental Information** box at the top right.

- If submitting this worksheet with a permit application, do not check the box.
- If submitting this worksheet without a permit application, or in response to a DAQ request for supplemental/requested information, check the box.

1. Provide the source name as it appears on the application. If a permit already exists for this operation, the source name should match the name on the permit.
2. If the source is existing and already has a permit, provide the number as it appears on the permit. Otherwise, enter "New."
3. Provide a brief description of the proposed project as it appears on the permit application. Indicate whether the flare is being proposed as a new control device or being modified. If it is being modified, briefly describe the proposed changes.

USE ATTACHMENT IF ADDITIONAL SPACE IS REQUIRED.

- 4–7. Specify the manufacturer, model number, serial number, and manufacture date of the flare.
8. Specify the type of flare used.
9. Specify whether or not the flare is an emergency flare.
10. Specify the primary mixing method for the flare.
11. Specify the maximum design heat rate in Btu per hour.
12. Specify the rated control efficiency of the pollutant(s) involved and the target pollutants controlled by the flare.
13. Specify the primary fuel type of the flare, flare gas higher heat value; the flow rate of the flare gas; whether the flare gas has a flow meter, and the sulfur content of the flare gas.
14. Specify the flare pilot type, the pilot fuel type, the consumption rate of the pilot fuel, whether the pilot fuel has a flow meter, and the sulfur content of the pilot gas.
15. Specify the emission units controlled by the flare.
16. Specify the height of the flare tip above grade; the temperature of the flared gas; the flow rate of the flared gas; the flare height if different from the flare tip height; and the diameter of the flare tip.
17. Specify the maximum rated emissions concentrations for each pollutant from flare. Choose the units used for reporting emissions: parts per million, pounds per hour, or pounds per million Btu.
18. Specify the emissions factor source for #19.
19. List the components of the gas stream and each one's volume, mole, or weight percentage. (Circle the one applies.)