

**Texas Commission on Environmental Quality**  
**Table 8**  
**Flare Systems**

Emission Point No. (EPN):	
Manufacturer:	Model No. (if available):

Type (elevated, ground level, pit)	Assisted (air, steam, non-assisted)	Operation (routine, MSS, emergency, dual)	Flare Height (ft.)	Flare tip inside diameter (ft.)

**Characteristics of Input**

Waste Gas Stream Material (identify stream)	Minimum Value Expected (scfm [68°F, 14.7 psia])	Average Value Expected (scfm [68°F, 14.7 psia])	Design Maximum (scfm [68°F, 14.7 psia])	BTU/scf Rating
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
Percent of time this condition occurs:				

Commercial products appearing in our Effects Screening Levels (ESLs) list, such as gasoline, may appear on this table as such or as individual constituents.

Number of Pilots	Type Fuel	Fuel Flow Rate (scfm [70°F & 14.7 psia]) per pilot	Total Heat Release Rate (Btu/hr)	Fuel Usage (scfm) Minimum	Fuel Usage (scfm) Maximum

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Stream	Flow Rate (scfm [68°F, 14.7 psia]) Minimum Expected	Flow Rate (scfm [68°F, 14.7 psia]) Design Maximum	Total Heat Release Rate Average Btu/hr	Total Heat Release Rate Maximum Btu/hr	Btu/scf	Temp. °F	Pressure (psig)
Assist Gas							
Waste Gas							

**For Steam Injection**

Steam Pressure (psig) Minimum Expected	Steam Pressure (psig) Design Maximum	Total Steam Flow Rate (lb/hr)	Temp. °F	Velocity (ft/sec)	Number of Jet Streams	Diameter of Steam Jets (inches)	Design basis for steam injected (lb steam/lb hydrocarbon)

**For Water Injection**

Water Pressure (psig) Minimum Expected	Water Pressure (psig) Design Maximum	Total Water Flow Rate (gpm) Minimum Expected	Total Water Flow Rate (gpm) Design Maximum	Number of Water Jets	Diameter of Water Jets (inches)

**Operating Schedule**

Normal (hours/day)	Normal (days/week)	Normal (weeks/yr)	Maximum (hours/day)	Maximum (days/week)	Maximum (weeks/yr)

Supply an assembly drawing, dimensioned and to scale, to show clearly the operation of the flare system. Show interior dimensions and features of the equipment necessary to calculate its performance. Also describe the type of ignition system and its method of operation. Provide an explanation of the control system for steam flow rate and other operating variables.