

FLARE COMBUSTION APPLICATION

**FORM E112
07/2001**

1. Name of Company: _____
(As shown on Line 1 of Form E001)

2. Name of Equipment Served by this Flare: _____
(As shown on Line 10 of Form E001)

3. Process Data:

A. Gases to be Flared: _____

B. Are there any contaminants in the gas stream the do not exist in the gaseous state: Yes No State removal method of these contaminants prior to flaring: _____

4. Equipment Data:

A. Type of Flare: Elevated Ground Level Pit

B. Dimensions of Flare: Height above grade: _____ Ft Tip Diameter: _____ ft

C. Steam Injection: Yes No Water Injection: Yes No

D. Pilot Data:

a. Number of Pilots: _____

b. Gas usage of each pilot: _____ CFH

c. Heat value of each pilot: _____ BTU/hr

E. Auxiliary Equipment (check all that apply): Igniters Pilot Burners Mist Trap Liquid Seal
 Flame Arrestor Pilot Flame Detectors Auto reignition system for pilots

F. Vent Gas Parameters:

	Maximum	Minimum	Average
Volume:			CFM
Velocity:			Ft/min
Temperature:			°F
Pressure:			In. Hg

G. List the concentrations of all gases to be flared in percent by volume.

Gases to be Flared	Maximum	Minimum	Average
_____			%
_____			%
_____			%
_____			%

H. Miscellaneous Gas Properties:

Heating Value: _____ BTU/ft³ Auto Ignition Temperature: _____ °F

Upper Explosive Limit: _____ % by vol. Lower Explosive Limit: _____ % by vol.

I. Steam Ratio: _____ Lbs steam/lb vent gas If the gas is a hydrocarbon and the hydrogen to carbon ratio is less than 0.28, steam injection will be required to make the flare smokeless.

J. Auxiliary Heating Method: _____ If the vent gas has a heating value of less than 50-100 BTU/hr, auxiliary heating will be required.

*This is to certify that I am familiar with the operations concerning this equipment and that the information provided on this application is true and complete to the best of my knowledge. **This form must be completely filled out before it will be acceptable.***

Mail to:
Chattanooga-Hamilton County Air
Pollution Control Bureau
2034 Hamilton Place Blvd. Suite 300
Chattanooga, TN 37421

Company Official: _____

Title: _____

Date: _____

DO NOT WRITE BELOW THIS LINE

_____ Engineer Approval This form corresponds to permit number: _____

Special Notations: _____