



Flare Stack Design Specification Sheet

Attention: _____ Customer: _____
 Company Name: _____ General Location: _____
 Phone: _____ Site Elevation: _____
 Fax: _____ Required By Date: _____
 Email: _____ Today's Date: _____
 Project Reference: _____

EQUIPMENT REQUIREMENTS

Utility Flare: No Yes → Intermittent Continuous
 Smokeless Flare: No Yes → Air-Assist Steam-Assist Gas-Assist
 _____ % smokeless of total flow
 Support: Self-Support Guyed Derrick
 Knockout Drum: No Yes → Integral Separate
 Flame Arrestor: No Yes → Deflagration Detonation
 Velocity Seal: No Yes
 Other Seal: Molecular Liquid

DESIGN PARAMETERS

If Flare Dimensions Known: Stack diameter: _____ in. Stack height: _____ ft.
 If Flare Dimensions Unknown:
 Design Flow Rate: _____ (scfd) (scfh) (#/hr) (mol/hr)
 Allowable Pressure Drop: _____ PSIG
 Pressure of Flare Gas: _____ PSIG
 Temperature of Flare Gas: _____ (°F) (°C)
 Allowable Radiation at Grade: _____ (BTU/ft²/hr) (kW/m²)
 Atmospheric Pressure: _____ PSI (a)
 Design Regulatory Authority: API 521 ASME B31.1 40CFR 60.13
 Fuel Gas Analysis – provide details: _____
 Waste Gas Analysis – provide details on a separate sheet or complete page two.

PILOT AND IGNITION SYSTEM

Continuous Pilot: No Yes → Natural Gas Propane
 Add Flame Monitor/Auto-Relight: No Yes
 Electronic (Arch- Light) Igniter: No Yes
 Power: Solar Package (12 VDC) No Yes
 Available Onsite: No Yes → 120 VAC 24 VDC Other
 Other: _____

