Flare Design Data Form

1.1. Quote Information

Customer Information			
Name		Company	
Business Title			
Email		Phone Number:	
Equipment Information			
Quantity:		Ship to Location (City, State, Zip)	
Proposal Due Date		Freight Terms	☐ EXW ☐ FCA ☐ FOB ☐ CIF ☐ Other _____
Potential Order Date:		Preferred Ship Date:	

Rank (1-4) Importance of the Following:							
Price:		Spec Compliance:		Delivery:		Quality/Reliability:	

Additional Comments

1.2 Process Conditions

Process Data	Case 1	Case 2	Case 3
Case Description (Emergency/PSV/Process/Etc.)			
Inlet Fluid Composition (recommended for most accurate sizing)	Please Attach	Please Attach	Please Attach
Gas Molecular Weight [g/mol] or SG			
Gas Inlet Pressure (PSIG)			
Gas Inlet Temp (°F)			
Gas Inlet Flowrate (MMSCFD)			
Gas Min Operating Temp [°F] (for riser material selection)			
Gas Inlet LHV (BTU/scf)			
Smokeless Flow [%] (if required)			
40 CFR60.18 exit velocity Compliant **(USA only)**	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Destruction Efficiency Required [%] (Typically: 98% DRE)			

1.3 Environmental Conditions

Maximum Radiation Permitted		
Point of Interest	POI #1:	POI #2:
Max Radiation Permitted Total [BTU/ft²*hr]		
Distance from flare Base [ft]		
If POI is not at grade, please specify elevation [ft]		
Solar Radiation Included [BTU/ft²*hr]		
Site Conditions		
Site Elevation (Ft)		
Ambient Temperature		
Humidity [%]		
Seismic Zone [IBC]		
Wind Speed for Radiation [mph]		
Wind Speed for Structure [mph]		

1.4 Design Scope

Type of Flare:	☐ Elevated ☐ Multi-Point ☐ Offshore ☐ Bio-Gas	☐ Enclosed Flare ☐ Rental ☐ Pit Flare ☐ Portable
Area Classification for Control Panel	☐ Class:_____ Div.:_____	☐ Safe Area
Preferred Support of Structure:	☐ Self-Supported ☐ Guyed	☐ Derrick Supported ☐ None (Tip Only)
Preferred Flame Monitoring System:	☐ Thermocouple ☐ Ionization	☐ Infra-red Monitor ☐ Ultraviolet Monitor
Preferred Ignition System Features	☐ Automatic ☐ Electric Spark ☐ Flame Front	☐ Manual ☐ Retractable ☐ Self-Inspiration
Utilities Available	Electric: ☐ No ☐ Yes VAC: Natural Gas: ☐ No ☐ Yes PSIG: Propane Gas: ☐ No ☐ Yes PSIG: Instrument Air: ☐ No ☐ Yes PSIG: Steam: ☐ No ☐ Yes PSIG:	
Preferred Method of Smoke Elimination	☐ Pressure Assisted ☐ Air Assisted ☐ Gas Assisted	☐ Steam Assisted ☐ Cimarron Recommend
Accessories		
☐ Export Packing ☐ Molecular / Buoyancy Seal ☐ Velocity Seal (default) ☐ Liquid Seal ☐ PLC (if not selected, Relay Logic will be used) ☐ Electric Winch for retracting pilot	☐ Flame Arrestor ☐ Knockout Pot ☐ Integral Scrubber ☐ Ladders and Platforms ☐ Aircraft Warning Lights ☐ Ladders & Platforms (N/A when using retractable pilot)	