Biogas Fully Enclosed Flare (BFEF) Design Form

1.1 Quote Information

Customer Information					
Name		Company			
Business Title					
Email		Phone Number			
Equipment Information					
Quantity:		Preferred Ship Date		Proposal Type	☐ Budgetary ☐ Firm
Ship to Location (City, State, Zip, Address)					
Application Type					
☐ Landfill ☐ RNG ☐ Waste Water ☐ Dairy/Beef ☐ Food Waste Other (Please Specify): _____					
Additional Comments					

1.2 Process Conditions

Process Data	Typical	Case 1	Case 2
Methane (CH_4)	0 - 100%		
Carbon dioxide (CO_2)	0 - 100%		
Water Vapor (H_2O)	0 – 100% RH		
Hydrogen Sulfide (H_2S)	0 – 0.5%		
Gas Inlet Pressure (inches WC)	Depends		
Gas Inlet Min/Max Temp (°F)	30 / 100		
Gas Inlet Flowrate (SCFM)	300 - 6,000		
Emissions Required	**Typical**	**Custom**	
Destruction Efficiency Required	98%		
CO Emissions (lb./MMBtu)	0.2		
NO_X Emissions (lb./MMBtu)	0.06		
Site Conditions			
Area Classification for Control Panel	☐Class: _____ Div: _____	☐ Safe Area	

1.3 Enclosed Flare Details

Enclosed Flare Design Options	Typical	Custom
Rigidizer Coating	Optional	
Ladder and Platform - Ship Loose	Optional	
Ship Loose Accessories	**Typical**	**Custom**
Pilot gas Train	Included	
Waste Gas Shutoff Valve	Included	
Waste Gas Flame Arrester	Included	
Purge Blower	Included	
Waste Gas Flowmeter	Depends	
Available Site Utilities		
Available Fuel Gas	☐ Natural Gas ☐ Propane ☐ Biogas	
Available Instrument Air	☐ Yes ☐ No	
Available Electricity	☐ 480V/3ph/60Hz ☐ 120V/3ph/60Hz ☐ 600V/3ph/60Hz Other (Please Specify): _____	
Flare Intended Operation		
☐ Continuous Flaring ☐ Intermittent Flaring		
Flare Thermal Turndown Before Shutoff Valve Closes		
☐ 6:1 ☐ 10:1		

1.3 Gas Blower Skid (if required)

Blowers	Typical	Custom
Required Blower Turndown	N/A – 10:1	
Blower Spare Capacity	☐ 0% Redundancy ☐ 50% Redundancy ☐ 100% Redundancy	