Customer name _____
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User name _____
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FLARE SYSTEM DATA SHEET

FLARE TYPE: ☐ Elevated Flare ☐ Enclosed Ground Flare ☐ Pit Flare ☐ Tripod Supported
☐ Guy Wire Supported ☐ Self-supported ☐ Derrick Supported ☐ Multipoint Ground Flare ☐ Enclosure Fence

FLARE TIP: ☐ Non-assisted ☐ Steam assisted ☐ Gas assisted ☐ Air-assisted ☐ Sonic MJ

DRUM TYPE: ☐ Vertical Knockout ☐ Liquid Seal ☐ Horizontal Knockout ☐ None

PURGE SEAL TYPE: ☐ Gas Purge Seal ☐ Velocity Purge Seal ☐ None

UNITS FOR DATA SHEET:

Flow: ☐ KG/HR ☐ LB/HR ☐ SCFD ☐ NM^3/HR ☐ LBMOLES/HR

Temperature: ☐ °C ☐ °F ☐ °R Heating Value: ☐ BTU/SCF ☐ BTU/LB ☐ KJ/NM^3

Pressure: ☐ PSIG ☐ BARG ☐ KPAG ☐ KG/CM^2

Radiation: ☐ $BTU/HR\text{-}FT^2$ ☐ KW/M^2 Velocity: ☐ FT/SEC ☐ MPH ☐ M/SEC

PROCESS DATA:

PROCESS RELIEF CASE	FLOWRATE	TEMPERATURE	ALLOWABLE SYSTEM PRESSURE DROP	LOWER HEATING VALUE	RELIEF DURATION SHORT/LONG/ CONTINUOUS	MOLECULAR WEIGHT
Maximum						
Smokeless						
Normal						
Minimum						

UTILITY DATA:

UTILITY	PRESSURE	TEMPERATURE	MOLECULAR WEIGHT	LOWER HEATING VALUE
Fuel Gas				
Natural Gas				
Purge Gas				
Instrument Air			**NA**	**NA**
Plant Air			**NA**	**NA**
Plant Water			18	**NA**
LP Steam			18	**NA**
MP Steam			18	**NA**
HP Steam			18	**NA**

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POWER TYPE	VOLTAGE	PHASE	HERTZ	AC or DC
General Instruments				
General Lighting				
Aviation Lighting				
Ignition Control Panel				
Motors Under 100 HP				
Motors 101-500 HP				
Motors 501-1000 HP				

ENVIRONMENTAL DATA:

Average wind speed (process design) _____

Maximum wind speed (mechanical design) _____

Site elevation above sea level _____

Site relative humidity _____

Minimum ambient temperature _____

Average ambient temperature _____

Maximum ambient temperature _____

Seismic zone for site _____

Maximum allowable radiation: ☐at grade _____ ☐with ☐without solar

☐at distance _____ ☐with ☐without solar

of: _____

Solar radiation level at site _____

Maximum noise level (dBa): ☐at grade _____ ☐smokeless ☐max. flow

☐at distance _____ ☐smokeless ☐max. flow

of: _____

Electrical area classification at / near flare _____

CUSTOMER AND JOBSITE INFORMATION:

Customer name	_____	End users name	_____
Street address	_____	Street address	_____
Post office box	_____	Post office box	_____
City/State/Country/Zip	_____	City/State/Country/Zip	_____
Contact name	_____	Contact name	_____
Phone number	_____	Phone number	_____
Facsimile number	_____	Facsimile number	_____

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GENERAL DESIGN CRITERIA:

Rank the following factors in order of importance (1-8)(1=high) relative to the flare equipment for this project:

Equipment cost	_____	Utility usage	_____	Experience	_____	Noise	_____
Installed cost	_____	Smokeless capacity	_____	Weight	_____	Field service	_____

Applicable specifications: ☐NEC ☐IEC ☐NEMA ☐AISC
☐AWS ☐ASME ☐ANSI B31.3 ☐ASCE 7-93

DETAILED SCOPE OF SUPPLY:

☐Ladders/platforms: ☐Per OSHA ☐Caged ☐Saf-T-Climb ☐Galvanized ☐Painted

☐Ignition system: ☐Manual ☐Automatic relight ☐Pilot status monitors ☐Regulators
☐Sun/rain shield ☐Free standing ☐Self-inspirating type ☐FFG type
☐Direct high energy spark ignition ☐Optical pilot monitoring device

☐Aviation marking: ☐Per ICAO ☐Per FAA ☐Fixed ☐Retractable
☐L+P access ☐Strobe type ☐Incandescent type ☐Banded paint

☐Utility piping/wiring: ☐Pilot gas ☐Ignition lines ☐Steam lines ☐Conduit ☐Assist gas
☐Thermocouple wire ☐High energy ignitor wire ☐Power wire

☐Corrosion protection: ☐SP-2 cleaning ☐SP-6 sandblast ☐SP-10 sandblast ☐Other_____
☐Red oxide primer ☐Inorganic zinc primer ☐Epoxy primer
☐Epoxy finish paint ☐Silicone finish paint ☐Other_____

DETAILED MECHANICAL DESIGN CRITERIA:

SYSTEM COMPONENT	INTERNAL DESIGN PRESSURE	MECHANICAL DESIGN TEMPERATURE	MATERIAL OF CONSTRUCTION	PROCESS SIDE CORROSION ALLOWANCE
Liquid Seal drum				
Knockout drum				
Flare gas riser				
Gas Purge seal device				
Support structure	NA	NA		NA
Steam piping				
Pilot gas piping				
Ignition piping				

NOTE: Attach sketch if this is for modification to an existing flare system or existing vent system.

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GAS COMPOSITION: ☐ Mole % ☐ Weight %

COMPONENT	MAXIMUM FLOW CASE	SMOKELESS FLOW CASE	NORMAL FLOW CASE	MINIMUM FLOW CASE	PILOT FUEL GAS
Methane					
Ethane					
Propane					
Butane					
Pentane					
Hexane					
Heptane					
Octane					
C9+ Saturates					
Ethylene					
Propylene					
Butylene					
Butene					
Butadiene					
Acetylene					
Benzene					
Toluene					
Xylene					
Styrene					
C9+ Unsaturates					
Ammonia					
Hydrogen					
Hydrogen Sulfide					
Carbon Monoxide					
Carbon Dioxide					
Water					
Nitrogen					
Oxygen					

COMMENTS: