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RAIL CAR LOADING VCU – INQUIRY DATA SHEET

DATE : _____

PROJECT REFERENCE NUMBER : _____

CUSTOMER : _____

END USER: _____

JOBSITE LOCATION : _____

REQUIRED DATE OF QUOTE : _____

ANTICIPATED DATE OF AWARD : _____

REQUIRED SHIP DATE / DELIVERY TIME : _____

NOTE : PLEASE PROVIDE AS MUCH INFORMATION AS POSSIBLE. IF HOWEVER, YOU ARE NOT ABLE TO PROVIDE ALL OF THE INFORMATION WE WILL MAKE AN ASSUMPTION BASED ON OUR EXPERIENCE AND KNOWLEDGE OF SIMILAR SYSTEMS.

The following questionnaire is for rail loading applications in which the vapors displaced from the cars are NOT balanced back to the storage tanks, ie the vapor flow directly and only to the Vapor Combustor.

1. **PRODUCT DATA**
   - Loaded Products : ie Gasoline, Diesel, etc:_____
   - Reid Vapor Pressure : (*Please provide for each product*): _____
   - Product Temperatures: (Please provide for each product).
     Summer Max / Summer Ave / Winter Max: _____
   - Rail Blanketing Gas: _____
   - Simultaneous Loading of Different Products (define each)_____
     _____

2. **Emissions Limits:** (Destruction Efficiency, NOx, CO, other): _____

3. **Loading Rack Information**.
   - Number of Loading Racks connected to the Vapor Combustor (ie number of rail cars that can be loaded simultaneously) : _____
   - Number of Loading Arms per loading Rack that can be connected to a rail car simultaneously: _____

4. Filling Rates

- Maximum Fill Rate Per Loading Arm. : _____
- Maximum loading pump rate, per pump per product : _____

  For example : Gasoline and Diesel can be loaded on the rack. There are two pumps supplying gasoline to the rack and one pump for diesel. What is the pumping rate for each pump/product.
- Notes : _____

5. Loading Profile

If you have the following information please provide :

Refer to the definitions of each parameter in the above sections.

	Loading Profile Parameter	Product 1 (ie Gasoline)	Product 2	Product 3	Totals
1	Product				
2	Max Instantaneous Flow Qi (ie SCFM)				
3	Max Volume Loaded in 15 mins; Q_{15}				
4	Max Volume loaded in 1 hour				
5	Max Volume loaded in 4 hours				
6	Max Volume loaded daily				

6. Max Flowrate / Pressure

- Maximum Vapor Flowrate and Composition: _____
- Maximum allowable backpressure of vapor at VCU inlet (in WC) : _____

7. Available Utilities

- Assist Gas Type (natural gas, propane, etc) :_____

  Temperature:_____

  Available Pressure:_____

  Any Flowrate Limitations:_____
- Electricity :

  Power: _____V _____ Phase _____Hz

  Control: _____V _____ Phase _____Hz
- Instrument Air (Yes/No) :_____

  Min Pressure: _____

  Max Pressure: _____
- Hazardous Area Classification (ie, Class 1, Div 2, Group D) :_____

8. Ambient Conditions

- Temperature : Max Summer / Ave Summer / Min Winter : _____
- Site Design Temperatures : _____
- Design Wind Code / Speed: _____ / _____
- Design Seismic Code / Speed: _____ / _____
- Site Location / Elevation : Coastal / Inland / Elevation above sea level : _____

9. Equipment Design

- Open or Enclosed Combustor : _____
- Sampling Ports in Stack (for enclosed combustor only) : _____
- Liquid Seal Drum (yes/no) : _____
  ASME Code Stamp (yes/no):_____
- Detonation Arrestor (yes/no) : _____
- Local Dedicated PLC or Site DCS Control : _____
- Customer Approved Vendors for Specific Items (PLC, Detonation Arrestor, etc):_____
  _____
- Available Plot Space : _____