4840 W. KEARNEY ST., SPRINGFIELD, MO 65803 • P (417) 865-8715 • F (417) 865-2950

Contact:		Phone:
Company:		Fax:
Street Address:		Email:
City:	Zip Code:	Cust Ref:
State:	Country:	Due Date:

Briefly describe your vacuum process:

Site Conditions

Ambient Temperature Min. _____ Max. _____
Elevation (above sea level) _____

Gas Data

Gas Composition Breakdown mass %____, or mole%____
Gas 1_____
Gas 2_____
Gas 3_____
Gas 4_____
Gas 5_____
Known air-in leak (ACFM or lb/hr)_____
Inlet Gas Temperature _____

Process Conditions – select "Steady State" or "Pump down Application"

☐ Steady State (for a continuous process at constant vacuum > 1 hour)
Inlet Pressure (continuous): _____
Discharge Pressure: _____
Flow Rate (mass or volumetric flow):_____

☐ Pump down Application (batch process w/cycle time < 1 hour)
Volume to Evacuate: _____
Desired Time to Evacuate: _____
Initial Suction Pressure: _____
Final Suction Pressure: _____

Seal Liquid (liquid ring pump only)

Type of seal liquid available (Water typical): _____
Temperature: _____

If sealant is other than water give:
Sealant Fluid: _____
Specific Gravity: _____
Specific Heat: _____
Vapor Pressure at operating temperature: _____
Viscosity: _____

Sealant Recovery System

☐ No Sealant Recovery (once through)-NSR
☐ Partial Sealant Recovery- PSR
☐ Full Sealant Recovery- FSR

Material of Construction Preference	****Not all products available in materials shown**
Metal options**	Elastomers/Shaft Seal options**
☐ Cast Iron ☐ Bronze ☐ Stainless Steel	☐ Viton ☐ Teflon ☐ EPDM ☐ Kalrez

Cooling Media Available	
Cooling Liquid (water typical):_____	Temperature: _____

Power Supply	____Phase ____Hz ____Voltage
NEC Area Classification	ATEX Area Classification
☐ Class I (gas) ☐ Class II (dust) ☐ Div 1 (normally present) ☐ Div 2 (only present in emergency) Group (A, B, C, or D): _____	Class I: ☐ Class II: ☐ Zone (1,2,21,22): _____ Protection (Exd, Exn): _____ Group (A, B, or C): _____ Temp Code (T1 thru T6): _____
Method of starting:	
☐ Direct on Line (DOL) ☐ Variable Frequency Drive (VFD) ☐ Other (e.g. Soft Start):_____	

Electrical Controls
Will Tuthill supply an electrical control panel? ☐ Yes ☐ No Enclosure Type required: NEMA 4 ☐ NEMA 7 ☐ IEC IP56 ☐

Current Process
What type of vacuum pump do you currently have for this process (e.g. Piston, Vane, Liquid Ring, etc.)?
If the current pump has failed, what was the nature of the failure?
Additional Remarks: