



CENTRIFUGE APPLICATION QUESTIONNAIRE

for Batch and Continuous Centrifuges

Date _____
 Company _____
 Contact _____
 Title _____
 Address _____
 City _____ State _____ Zip _____
 Country _____
 Phone _____ Fax _____
 Mobile _____
 Email _____
 How did you learn about Western States?

Rheological Characteristics: Newtonian
 Thixotropic Dilatant Pseudo-Plastic
 Viscosity(cps) _____ @ _____ °F °C pH _____

THROUGHPUT

Gallons or lbs./hr _____

Process will Operate:

Continuous: _____ hours/day
 Intermittent: _____ hours ON, _____ hours OFF
 Final Moisture Level Desired (%) _____

UTILITIES AVAILABLE

Electrical: _____ Voltage, _____ Phase, _____ Hz
Air: Clean Shop Air _____ psig, _____ cfm
Water: _____ °F °C, _____ gpm, _____ psig

ELECTRICAL CLASSIFICATION

Note if centrifuge and controls are in different areas.

Enclosures: NEMA-12 NEMA-4 (washdown)
 NEMA-4X (washdown & corrosive) NEMA-7 (XP)
 Other (including IP designations) _____
Motor Classification: Class _____, Div. _____, Grp _____

CONTROLS & INSTRUMENTATION

None Basic Controls Automation (PLC)
Instrumentation: Temperature Pressure pH
 Fluid Flow Viscosity O₂
 Other _____
Signal: 0-20 mamp 0-10vdc HART Fieldbus
 Other _____

MATERIALS OF CONSTRUCTION

304 304L 316 316L Hastelloy C276
 Inconel Titanium Other _____

ANCILLARY EQUIPMENT

CIP Pre-Mixers Feed Tanks Feed Pump(s)
 Vapor Control Discharge Chute Solids Conveyor
 Other _____

PROJECT SCHEDULE

Start-Up Scheduled for QTR 1 2 3 4 of 20_____
 Project is Funded YES NO
 Installation Location (State or Country) _____
 Local Rep _____

SEPARATION EXPERIENCE

Describe the present method of separation.

Centrifuge (type) _____
 Basket Size _____ RPM _____
 Cake Thickness (inches) _____
 Actual Capacity/Rate _____
 Filter (type) _____
 Cake Thickness(inches) _____
 Pressure Differential (PSI) _____
 Actual Capacity/Rate (lbs./hr) _____

How is this method performing? _____

PRODUCT CHARACTERISTICS

SOLIDS NAME(S) _____
Bulk Density (lbs./ft³) _____
Angle of Repose(° from horizontal) _____
 Description of flowability _____
 Filtering/Drain Rate (gallons/minute/ft²) _____
Particle Size Distribution:
 _____ % less than _____ mesh or μ
 _____ % less than _____ mesh or μ
 _____ % less than _____ mesh or μ

Solids Form: Crystalline Colloidal Gelatinous
 Cohesive Foaming Fibrous Abrasive Friable

LIQUID NAME(S) _____
 % Percent Solids (normal) _____, (max.) _____
 Feed Temp. (normal) _____ °F °C, (max.) _____ °F °C