WESTERN STATES

where innovation happens everyday™

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?

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./ft^3_____
Angle of Repose(° from horizontal)_____
Description of flowability_____
Filtering/Drain Rate (gallons/minute/ft^2)_____
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
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 ❑ O_2
❑ 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_____

Email Completed Form to: ws.sales@westernstates.com

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