

Western States Machine Company Centrifuge Application Questionnaire

for Batch and Continuous Centrifuges

Date _____

Company _____

Contact _____

Title _____

Address _____

City _____ State _____ ZIP _____

Country _____

Phone _____ Fax _____

Mobile _____ E-mail _____

How did you learn about Western States?

Rheological Characteristics Newtonian

Thixotropic Dilatant Pseudo-Plastic

Viscosity (cps) _____ @ _____ °F °C pH _____

THROUGHPUT

Gallons or lbs./hour: _____

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, _____ psig _____ gpm

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 designation) _____

Motor Classification: Class _____ Div _____ Grp _____

CONTROLS & INSTRUMENTATION

Controls: None Basic Controls Automation (PLC)

Instrumentation: Temperature Pressure pH

Fluid Flow Viscosity O₂

Other _____

Signal: 0-20 mA 0-10 VDC 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 1 2 3 4 Qtr 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 (lbs/Hr) _____

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 micron

_____ % less than _____ mesh or micron

_____ % less than _____ mesh or micron

Solids Form: Crystalline Colloidal Gelatinous

Cohesive Foaming Fibrous Abrasive Friable

Liquid Name(s) _____

% Solids (normal) _____ (max) _____

Feed Temp(normal) ° F / °C _____ (max) _____

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