# MILLING APPLICATION

PAUL O. ABBE® Since 1911

**Talk with the Experts**
**630-350-3012**

Date _____ 20____
Company _____
Contact _____
Title _____
Address _____

City _____ St _____ Zip _____
Country _____
Phone _____
Mobile _____
Fax _____
E-mail _____
**How did you learn about PAUL O. ABBE?** _____

## MILLING EXPERIENCE *(describe your present milling method)*
Type of Mill & Size _____
How is this method performing? _____

## SOLID & LIQUID PRODUCT CHARACTERISTICS

Will milling be performed: □ WET or □ DRY ?

## QUANTITY TO BE MILLED
_____ □ ft³ or □ liters per _____ hour(s)
_____ □ lbs. or □ kgs. per _____ hour(s)

## SOLID COMPONENTS
Name(s) _____
Bulk Density _____ □ lbs./ft³ or □ g/cc
Mohs Hardness (1-10) _____

***INITIAL*** Particle Size Distribution: □ mesh or □ µ microns
_____ % less than _____
_____ % less than _____
_____ % less than _____
_____ % less than _____

***FINAL*** Particle Size Distribution: □ mesh or □ µ microns
_____ % less than _____
_____ % less than _____
_____ % less than _____
_____ % less than _____

## LIQUID COMPONENTS
Name(s) _____
Percent Liquid _____ %
Viscosity _____ cps @ _____ □°F / □°C
pH _____

## TEMPERATURE
**MAXIMUM** allowable temp. during milling _____ □°F / □°C

## HEATING/COOLING JACKET
Required for cooling _____ □°F / □°C
Required for heating _____ □°F / □°C
Medium: □ water □ steam □ oil
Jacket Rating: □ 14.7 psig non-code
□ ASME code stamped for _____ psig

## LOADING & UNLOADING
How will solids be loaded into the mill? _____
Where will milled product be discharged to? _____

## CLEARANCES
Clearance below discharge valve _____ "
Height/ceiling restrictions _____ "

## PRODUCT CONTACT MATERIAL
**Steel:** □ abrasion resist steel □ stainless steel
**Ceramic:** □ alumina (≈90%)
**Lined:** □ rubber □ polyurethane □ other _____

## GRINDING MEDIA
Is grinding media required? □ Yes □ No
*Type of Grinding Media:*
**Steel:** □ hardened steel □ stainless steel □ chrome
**Ceramic:** □ alumina (≈90%) □ yttria stabilized alumina
□ zirconia □ **Other:** _____

## EXTERNAL & SUPPORT MATERIALS
□ mild steel □ 304 □ Other _____

## UTILITIES AVAILABLE
Electrical _____ voltage, _____ phase, _____ Hz
Water _____ □°F / □°C _____ gpm, _____ psig

## ELECTRICAL CLASSIFICATION
Will *mill* and *controls* be in different areas? □ Yes □ No
Motor Classification:
□ non-classified TEFC
Class: □ Cls. I (gas/vapor), □ Cls. II (dust)
Division: □ Div. 1 (Class substance is present in normal conditions)
□ Div. 2 (Class substance is present in abnormal conditions)
Electrical Enclosures: □ NEMA-12, □ NEMA-4 (washdown)
□ NEMA-4X (washdown & corrosive), □ NEMA-7&9 (XP)
□ NEMA-4,7&9, □ other _____

## SUPPORT EQUIPMENT REQUIRED
□ Cooling □ Liquid Addition
□ Inert Gas Purge □ Loading/Unloading
□ Controls

## PROJECT SCHEDULE
Start-Up Scheduled for □ 1st □ 2nd □ 3rd □ 4th Qtr., 20 _____
Is Project Funded: □ Yes □ No
Installation Location (State or Country) _____