

MILL LINING QUESTIONNAIRE



PARTNERSHIPS IN PRACTICE

Company _____ **Date** _____

Operation _____

Contact _____

Phone _____ **Email** _____

MILL DATA

Mill Manufacturer										
*Type of Mill (AG/SAG/Ball)										
*Mill Duty (1°/2°/3°/Regrind)										
*Mill Diameter (M)						*Mill Length (M)				
*Diameter of Feed End Trunnion						*Diameter of Discharge end Trunnion				
*Head Inclination (degrees)										
Total Installed (Available) Power (kW)						Power Draw (kW)				
Power factor					Type of Mill Discharge (Grate/Overflow)					
*Mill Speed - Fixed						RPM				% Crit
Or *Mill Speed – Variable between				&		RPM		&		% Crit
*Direction of Rotation										
(Clockwise/Anticlockwise/Dual Rotation, Looking from feed to discharge)										

PROCESS DATA

*Ore Type	
*B.W.I. Ball Mill	
B.W.I. Rod Mill	
B.W.I. Crushing Circuit	
Abrasion Index	
Specific Gravity %	
Bulk Density	
Oils/Chemicals in Mill	
Silica Content %	
pH Level in Mill	
Maximum Temperature Inside Mill (oC/oF)	

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	Design	Current	Desired
*Throughput Rate (tph)			
Operating Hours per Year (%)			
Power Consumption (kWh/ton)			
*F100 (mm)			
*F80 (mm)			
*P80 (um)			
Mill Discharge Density (% Solids)			
*Ball/Rod Top Size (mm)			
*Ball Charge Volume (%)			
Recharge Size/s (mm)			
*Total Charge Volume (%)			
Media Consumption (Kg/tonne)			
*Open or Closed Circuit			
*If Closed Circuit, Recirculating Load (%)			
*Grate Discharge Critical Size build up? Y/N	Size:		

EXISTING LINING	Feed	Shell	Discharge
Current Liner Material			
*Number of Rows			
Lifter Bar Width x Height			
Current Lifter Life (Hours/Tonnes)			
Plate Thickness			
Current Plate Life (Hours/Tonnes)			
If Grate Discharge, Aperture Size (mm x mm)			
Pebble Port size (mm x mm)			
Open Area (cm ² /%) – Or we can suggest			

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CURRENT PARTICLE SIZE DISTRIBUTION

F100:		F80:	
F75:		F50:	
F45:			

CRUSHER DETAILS

Make:	
Model:	
Closed Size Settings:	
Closed Circuit Crushing:	

OTHER

Charge Level:	FEH:	Centre:	DEH:
Fresh Feed Capacity: (is belt calibrated 1 yr)			

MAIN OBJECTIVES (RANKED 1 TO 8. 1 = HIGHEST PRIORITY)

Production Throughput	Liner Life	Liner Cost/Price
Grind Size	Media Consumption	Shutdown Path
Shutdown Scheduling	Operating Time	Other (Specify below)

ADDITIONAL INFORMATION: