CHIP MOISTURE QUESTIONNAIRE

Process Data:

Pulp production	Kamyr	BDT/year
	Batch	BDT/year
Kappa Target	Kamyr	
	Batch	
Calculated Aver. Kappa	Kamyr	
	Batch	
Corresponding Yield	Kamyr	%
	Batch	%
Calculated Kappa STD Dev. (2sigma)	Kamyr	
	Batch	
Average Wood Moisture	Kamyr	%
	Batch	%
Range of Wood Moisture, if analyzed	Kamyr	% (SW/HW)
	Batch	% (SW/HW)
Alkali/Wood Ratio (AA or EA)	Kamyr	%
	Batch	%
White Liquor Average TTA		
AA		
EA		
Cooking temperature (Kamyr)		degr. F
WL temperature		degr. F
Reburnt lime usage per BDT of pulp tons/year		tons/BDT
Amount of water (lb) evaporated by 1 lb of steam		lb/lb
Heavy BL solids		%

Physical Properties:

Enthalpy of steam (@ 875 F, 1250 psig)	1425 BTU/lb
Enthalpy of steam (@ 425 F, 160 psig)	1233 BTU/lb
Heat of vaporization *(water)*	970 BTU/lb
Heat of condensation	350 BTU/lb
Energy to melt and heat smelt to 1550 F	532 BTU/lb
Energy to vaporize water @ 140 F	1040 BTU/lb
WL density	9.5 lb/gal
BL density	9.05 lb/gal

Prices: [assumed]

Pulp *(margin after manufacturing cost)*	$/BDT(unblchd)
Steam (900/600 psig)	$/1000 lbs
Steam (160 psig)	$/1000 lbs
Steam (60/40 psig)	$/1000 lbs
Reburnt lime *(cost to make)*	$/ton

Other:

How many potential analyzer locations, where:
Chip feeding system: conveyor belt: ☐ pneumatic: ☐
Chip weighing weight-o-meter: ☐ strain gauge: ☐ other: ☐
Exist. chip moisture meter: yes: ☐ no: ☐ reliable: ☐ lab: ☐
If lab, how often analyzed:
If Kamyr, is the presteaming vessel in operation: yes: ☐ no: ☐
If yes, do you believe the chip moisture will be stabilized with no analyzer needed: yes: ☐ no: ☐

List mill bottleneck(s), if any, in order of severity: