THE EFFECT OF WOODHANDLING ON KRAFT PULP YIELD

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Consistency is Key

- Identify all processes used to deliver chips to the pulp mill
- Thoroughly evaluate each process
- Optimize each process to enhance consistency
Evaluating Processes

- Minimize wood loss
- Maximize uniformity
- Identify and isolate variability, then control its use
Processes

- Selection of Wood
- Harvesting
- Log Storage/Handling
- Slashing
- Washing/Deicing
- Debarking
Automated Wood Handling

Automation optimizes debarking with significant benefits:

- Controlled and efficient process
- Uniform log and chip flow for superior chip quality and cleanliness
- Minimized wood loss
Processes

- Chipping
- Chip Storage/Reclaiming
Homogeneous Mix of Chips

Traversing Screw Reclaimer
RecAll™ vs. Cantilever Reclaimer

RecAll
- 100 % Automatic reclaiming
- fines generation 0....0,5 %
- uniform chip quality
- minimized area
- low risk of contamination

Cantilever
- ~ 70 % reclaiming
- fines generation up to 5 %
- front loader/bulldozer
Processes

- Screening
- Re-processing of undesirable chips
Example

- Log lengths
- Log infeed
- Debarking
- Chipping
- Chip storage and reclaiming
- Chip screening
References

2) Hatton, J.V., Chip Quality Parameters and Their Effects in Pulping.
11) East, J. D., Engelgau, W. G., Longwood Barking and Chipping, TAPPI.