PARCtrack

Residence Time Model for Pulping Process

Accurately track pulp properties through each stage of the pulping process. Produce a time shift between process stages, allowing users to correlate properties between them.

- Pro-active decision making viewing of future projections
- Reduce losses from “rotten pulp”
- Implement control strategies using future projections
- Improve response to customer complaints with accurate traceability from order through pulp mill.
- Quickly determine the correlation of downstream properties (bleaching) with upstream properties (washing).

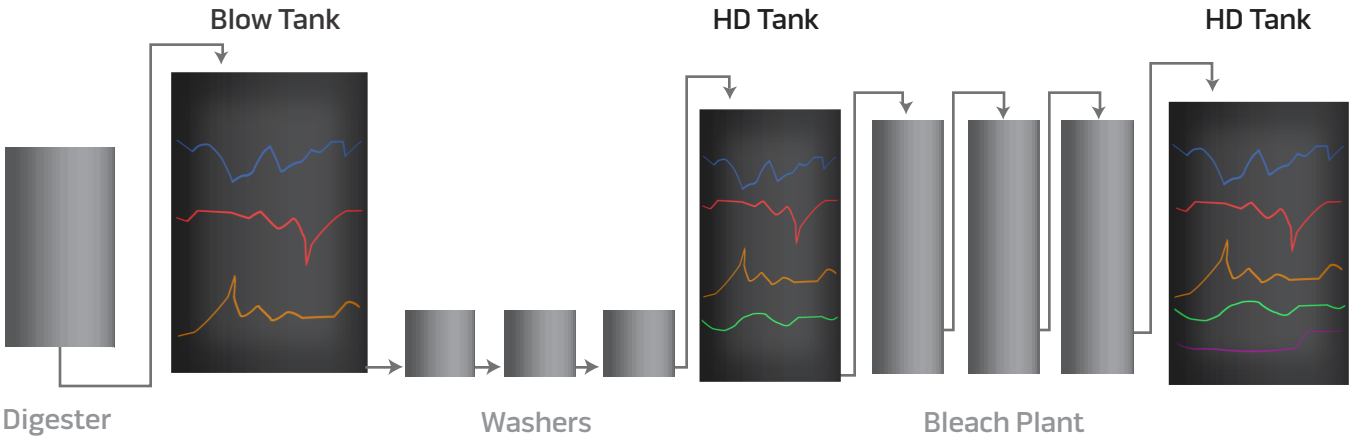

Image: Process layout showing time shifted properties at various stages.

- Kappa after Dig
- EA after Dig
- Extraction Temp after Dig
- Conductivity after BS Washers
- Brightness after Bleach Plant

CAPSTONE TECHNOLOGY

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TECHNICAL FEATURES

Residence Time Model

Utilizing mass in, mass out and total tank inventory, with one degree of freedom, the PARCtrack model provides accurate time shifting between unit operations.

Does your mill have multiple storage tanks? No problem, PARCtrack can utilize valve positions (automated or manual) to trace stock to the proper tank.

Tanks

PARCtrack breaks the production process into a series of “tanks” that can be defined as mixed or plug flow. Tuning parameters for each tank allow for variation to be taken care of.

Universal Time Shift Tag

A unversal tag is created between each defined tank, allowing correlation for any set of tags – whether configured in advance or not.

Property Tags

Tags are created for each tracked property and evaluated at each downstream tank, just like having new sensors throughout the process.

Visualization Tools

Uses a specialized PARCgraphics designer object and PARCview's future projections for viewing properties through each tank.