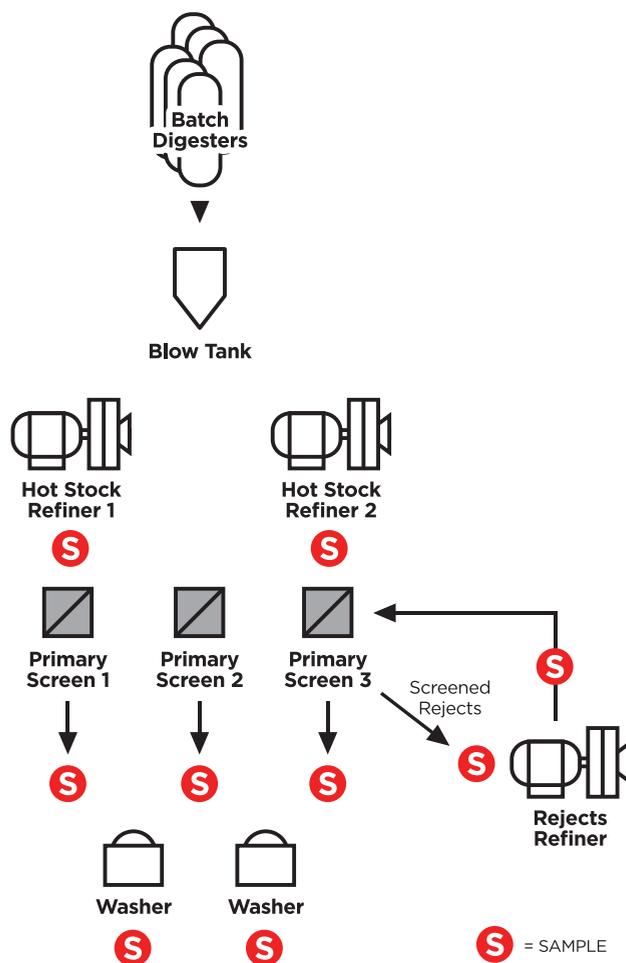


Fiberline Shive Mapping



Description

Fiberline Shive Mapping provides the foundation for successful implementation of a Shive control program.

The Mapping Report establishes the following:

- Optimum Test Method
- Expected Repeatability
- Fiberline Profile Chart

Procedure

After an interview with a mill representative, with good Fiberline process flow knowledge, a simplified process flow diagram will be generated along with recommended sampling locations. A Pulmac Service Representative will then be dispatched to support the collection of representative sample. Within two weeks of the samples arriving, our lab will have developed an optimized test method for each sample location and generated triplicate test results on each of the received samples. Soon thereafter, a final report will be available and a presentation of results scheduled. The final report will include a detailed outline of the optimized test method for each process location, expected average and individual repeatability, and a Fiberline Shive reduction chart.

Deliverables

- Simplified process flow diagram with sampling locations
- Sample Gathering Kit
- Data from triplicate test results
- Fiberline Shive Reduction Chart
- Optimized Test Method
- Fiberline Shive Testing Report
- Fiberline Shive Testing Presentation

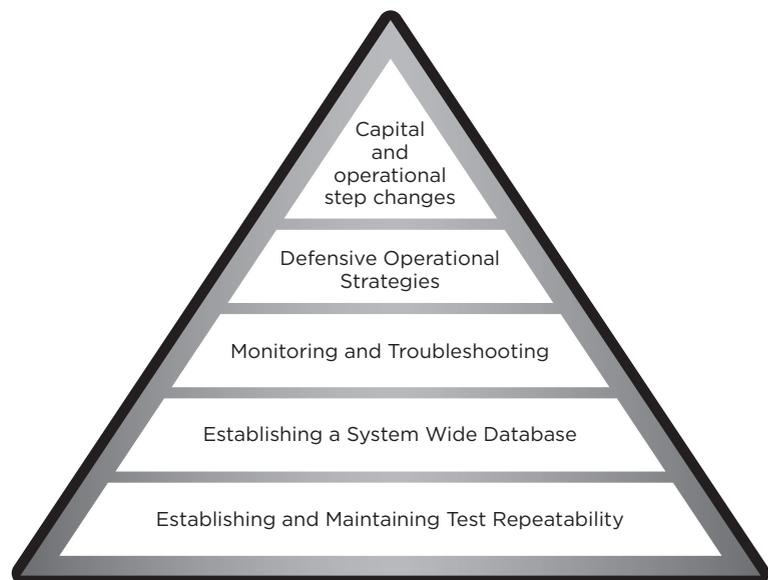
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Fiberline Shive Mapping

Benefits

The foundation of a successful shive control program is rapid, robust and repeatable test data that predicts end use properties. Pulmac shive testing provides a common language from hotstock refining to the reel of the paper machine. Fiberline shive mapping established a customized test method that is optimized for rapid and repeatable results. In addition, it highlights expected test data repeatability and provides a baseline for creating a working database. Once a database is in place, it will be available for rapid and accurate troubleshooting. More importantly, a working database gives pulp mill operations the confidence to optimize productivity because they will know the effect it will have on Shive.



Best Practices

- The foundation of any contaminant control program is measurement. The contaminant needs to be consistently measured rapidly, repeatably and reliably.
- Once the appropriate measurement system is in place, it needs to be applied to all unit processes that influence contaminant levels.
- With a profile database, control limits can be established at appropriate locations for monitoring and troubleshooting.
- While the troubleshooting protocol is being performed, defensive operational strategies can be implemented to minimize the impact of higher contaminant levels.
- Due to bottlenecks, unit process instabilities, or productivity opportunities, new capital or permanent changes in operational strategies may be justified. A robust measurement system and a comprehensive database will support the identification of highest impact solutions and pave the way for implementing them.

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