

Hydrite Hydri-SLM RT Case Study

Introduction

Three major U.S. cheese and whey processing customers were establishing and maintaining Whey UF and Whey RO system wash recipes and their respective sequences by reactive and historical methodologies. The customers change and optimization management programs were struggling to drive continuous improvement.

Value Created

Hydri-SLM RT verified “clean” on each Whey UF and Whey RO wash sequence and identified enhancements, modifications or to eliminate a wash sequence and/or recipe.

Goals

- Increase production throughput while simultaneously reducing chemical spending as well as energy and water consumption.
- Implement an automated inline monitor and control methodology that can advance wash sequences and be controlled from anywhere in the plant.
- Enhance change and optimization management program.
- Provide daily cleaning verification reports.

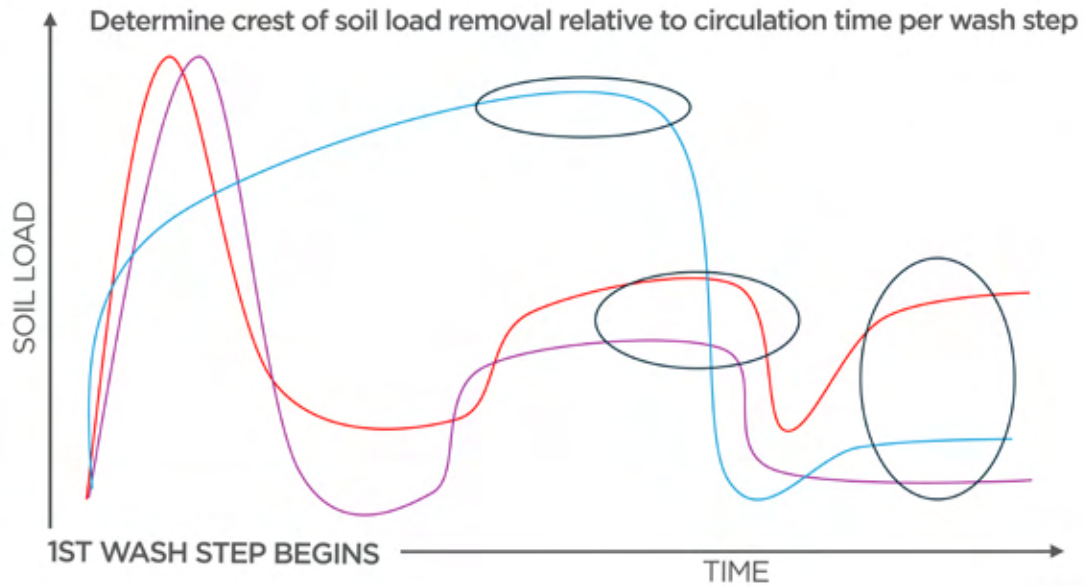
Solutions and Results

Transparency to Process Variability: Monitor, understand and build a historical database of day to day processing variance impact on cleaning.

Full Integration: Hydri-SLM RT is a PLC-based platform that can tie directly to a controls network. Plant employees can control and monitor Hydri-SLM RT performance from any HMI in the plant.

Customizable Cleaning: Set on daily processing variance and when “clean” occurs per membrane filtration system per wash sequence.

Cleaning Verification Reporting: Detailed reports are automatically generated and available locally on the PLC plus they can be emailed to a predetermined distribution list at any frequency.



Customer 1

Shortened their 2nd wash by 10 minutes and 3rd wash by 20 minutes

Customer 2

Eliminated 3rd wash and shortened 2nd wash

Customer 3

Transitioned to a single wash program with acid wash only conducted as needed

The data displayed shows how Hydri-SLM RT can identify when "clean" occurs in a wash sequence, in real time, utilizing any given wash recipe.



Providing Creative Solutions

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