



ULTRA LOW WASTE FILTER

Industrial Water & Wastewater Audits Perfection Chain – Maintaining ZLD

Overview

With growing demand for their weldless and welded chain products due to the merging of several acquired operations, Perfection Chain of Cullman, AL faced challenges in maintaining their position as a Zero Liquid Discharge manufacturer. To maintain product quality and address increasing wastewater volumes, Perfection Chain was considering an expensive to purchase and operate vacuum evaporator. Based on a recommendation from their chemical supplier, Perfection Chain contacted AquaPyr to conduct an audit of their water and wastewater processes.

Objectives

- Review Water & WW Operations
- Review Evaporator Technology
- Suggest new or alternate water treatment technologies
- Help Client Navigate Water Industry Supplier Network
- Ensure end plan fit Perfection Chain both operationally and financially



Perfection Chain, Cullman, AL

Details

Objective	Status	
Wastewater	✓	Segregated WW streams to prevent cross contamination and reduce water use. Eliminated need for existing, inefficient wastewater recycling system.
Water Treatment	✓	Introduced new boiler water treatment to reduce blowdown.
Production	✓	Removed production constraints and created excess capacity.
Projected Capital Expenditure	✓	Eliminated the need for new capital equipment through wastewater segregation and new water management plan.

Customer Sentiment

" AquaPyr worked closely with our team to help us avoid making a significant capital expenditure that would have also greatly increased our OPEX, all while simplifying our water treatment process and taking the restraints off our production capacity. It is evident the staff from AquaPyr are experts in their field of water and wastewater treatment. Thank you for a job well done!" – *Don Zimomra, President, Perfection Chain.*