Case Study: Pelagos Implementation

Pelagos, a significant player in the pelagic fish processing sector, implemented ECA water technology to address persistent microbial control challenges in their processing operations. Their approach demonstrates how tailored application strategies can deliver substantial operational improvements while enhancing product quality and safety. The implementation focused on two critical areas: process water treatment and slurry ice production.

Process/Sea Water Application

Pelagos implemented a variable dosing strategy with seasonal adjustments based on changing water conditions and processing volumes. This adaptive approach ensured consistent microbial control despite fluctuating environmental factors.

Slurry Ice Machine Treatment

A consistent dosing regimen was established for the fresh supply to slurry ice machines, creating microbiologically stable ice that maintained product freshness while preventing cross-contamination during storage and transport.

Surface Cleaning Application

Pelagos expanded their implementation to include ECA water delivered through low-pressure cleaning systems for surface sanitation, eliminating the need for conventional cleaning chemicals and their associated rinsing requirements.

Measurable Results

The implementation yielded several quantifiable benefits for Pelagos:

- Complete elimination of visible biofilm in process water systems
- Significant reduction in bacterial counts throughout the processing environment
- Elimination of chemical cleaners for most surface applications, reducing both costs and environmental impact
- Improved product quality consistency, particularly during seasonal production peaks
- Reduction in water usage by eliminating chemical rinse requirements

The success of this implementation hinged on two key factors: precise dosing calibrated to specific operational requirements and comprehensive staff training to ensure proper application methods. Pelagos' experience demonstrates that ECA water technology can be effectively integrated into existing operations without significant disruption to processing workflows while delivering measurable improvements in hygiene standards.