

OSD CLEANING OPTIMIZACION

Europe - Confidential Client

At a Glance

Hyde Engineering + Consulting reduced turnaround time to less than 1 day. Additionally, they earned a 25% reduction in actual CIP time and a 33% reduction in cleaning agent costs.

About Hyde Engineering + Consulting

Hyde Engineering + Consulting has been a global leader in process system design, commissioning, and FDA compliance for regulated industries since 1993.

Our Results

40-60%

Reduction in Chemical Consumption

45-70%

Increase in CIP System Availability

40-70%

Reduction in Water Consumption

1.5-2.5X

Increase in Manufacturing Throughput



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PROJECT GOALS

- Eliminate manual cleaning and confined space entry (safety hazard)
- Reduce cleaning turnaround (previously averaging 5 days)

PROJECT COMPONENTS

- Cleaning agent selection
- Design space exploration
- Cleaning duration estimate
- Scale-up testing
- Design remediation
- Cycle development
- CIP system C&Q/validation



Design Space Exploration



Cleaning Agent Selection



Cycle Development

PROJECT OUTCOME

- 1 25% reduction in actual CIP time
- 2 33% reduction in PW costs
- 3 35% reduction in cleaning agent costs
- 4 Turnaround time reduced to < 1 day
- 5 New CIP implemented in 6 months