

## Major Dairy Manufacturers Go Paperless Tracking CIP Data

MAVERICK's CIP (Clean in Place) reporting system is successfully implemented and utilized by key stakeholders at major dairy manufacturers.



### Main Objective

MAVERICK developed a CIP reporting system for its customers to provide a secure, accurate and reliable electronic record of CIP activity. The system allows multiple levels of operations and management personnel to readily access CIP data in customizable views.

### Customer Results

Through the CIP reporting system, MAVERICK delivers a comprehensive view of CIP data, allowing access to information previously unavailable. Customers find it very easy to analyze data and track every CIP with this system.

### Application Description

- The CIP Reporting System utilizes Wonderware® Historian™, Microsoft® SQL 2005™, Microsoft Reports™ and Microsoft's Visual Web Developer 2008 Express Edition™.
- This is a web based solution that provides a secure, centralized location for data access and storage.
- CIP washes are searchable by unit and circuit for any time range. Users access the list of CIP washes via a web browser.
- The basic chart report displays temperature, flow and conductivity for a circuit as well as operator, wash type (i.e. full, sanitize, etc.) and wash complete (yes / no).
- A last washed report displays the last wash time for all units and circuits. Information displayed on the report includes hours since last washed, the duration of the wash and whether or not the wash was complete. Circuits that have exceeded or violated required wash times are highlighted.
- All steps of a CIP are tracked and reported. The step report includes unit and circuit, step numbers and descriptions, the start and end time of each step and the preset and actual duration for each step.
- The reports provide the manufacturer the ability to assess quality and verify performance.
- Compliance to CFR 21 Part 11 is simplified by the features and capabilities of the Wonderware Historian.
- Records are available for inspection in both electronic and human-readable form. The reports are exportable to PDF or Excel™ format for print or transmittal.
- Records are protected for retrieval during the required retention periods. All reports are securely archived in the historian and other SQL databases for full recall of the selected CIP records.
- System access is limited to authorized individuals. The IT infrastructure of each manufacturer provides secure systems in addition to the inherent capabilities within Wonderware and the Microsoft Visual Web Development environment.

### The MAVERICK Difference

MAVERICK combined its knowledge and experience automating CIP systems to provide its customers with timely and efficient operations data without the need for paper charting.