



## CHEMICAL SUPPLY & LOGISTICS

### Introduction

USP Technologies (USP) specializes in chemical logistics and supply management services. We are one of the largest direct North American suppliers of hydrogen peroxide for environmental service applications. Through partnerships with the top four hydrogen peroxide producers, we currently maintain access to the most comprehensive supply and distribution network available. This leadership position assures customers an uninterrupted supply and competitive pricing.

In addition, USP has also developed supply partnerships with leading producers of iron salts, nitrate, peracetic acid, caustic, persulfate, percarbonate and specialty equipment systems. Through these relationships we provide high quality products and services at competitive prices. This ensures the most efficient management of best-fit technical solutions, no matter what program or technology is required.

USP can maintain multiple levels of site control and monitoring ranging from basic inventory management services up to advanced process control. The USP Chemwatch Advanced Control System (ACS)™ can provide SCADA interface, system monitoring and diagnostics as well as alarming capabilities.

### Remote Monitoring

USP uses ChemWatch™ telemetry and control technology to remotely monitor tank levels, provide customized dose profiles, and perform system diagnostics and reporting. The ChemWatch control unit provides a local real-time level display for easy tank level reference. The unit can also receive an external analog signal for direct process feed rate control or it can be locally or remotely programmed to provide complete customer-specific control programs.

### Inventory Management

Inventory management is accomplished through remote tank level monitoring. The USP Chemical Ordering Management System (COMS) monitors usage and schedules deliveries accordingly. Each account can have customized reorder points with customers receiving e-mail alerts for planned deliveries. The COMS operation monitors daily usages and reports variances to account team members for corrective actions. Data can be extracted for usage history and for budget management.

### System Diagnostics

Easily-interpreted charts of actual tank levels are provided as the simplest diagnostics tool. More advanced system diagnostics are available including system pressure verification (pump performance), dose rate variance to set-point and loss of flow.

### Customized Dose Control

Through an extensive system modeling and sampling program, USP develops a dose profile to meet control objectives as well as minimize chemical usage. The ChemWatch ACS provides precise control and performance feedback capabilities to ensure optimum program performance.

## System Monitoring and Alarming

Multiple levels of system monitoring and alarming can be configured including pump performance, flow verification, leak detection and level monitoring. Alarm notification is customized to include the ChemWatch control center and USP account first responders, and can include select customer representatives either through email, text notification or through an onsite master control system.

## Delivery Scheduling

Through our telemetry system, USP manages the chemical inventory of customers around the country, planning deliveries for whenever they are needed. Customers receive email notifications when deliveries are scheduled, and have the ability to override them if needed. This service provides plant operators with peace of mind as a continuous supply of chemicals will keep processes free of disruptions and operators can focus on other tasks.

## Chemical Supply

USP's strategic relationship benefits include multiple producer-partners and channel partners that provide chemical supply from multiple delivery points. Our economies of scale provide improved market access and development opportunities as well as dedicated delivery equipment and modes of transportation. As a result, USP can reliably provide multiple chemicals such as hydrogen peroxide, iron salts, nitrate, peracetic acid, caustic, persulfate, percarbonate and many more.

## Chemical Delivery Policy and Procedure

USP developed a rigorous chemical delivery management policy including the following elements:

- Chemicals are delivered in delivery trucks certified for specific chemicals
- Delivery personnel are DOT certified to transport hazardous materials
- Chemical deliveries can be met as necessary by USP technicians who assist in offloading and/or applying the chemicals, as well as performing pre/post-delivery inspections
- Technicians observe deliveries and are prepared with appropriated PPE to respond to any out of spec situations
- Each delivery has multiple checks to ensure proper chemical and quantity is delivered
- USP personnel have full authority to stop deliveries at any time regardless of the situation

**Note:** USP does not own or operate chemical transport and delivery equipment. USP contracts with local supplier terminals and orders product direct from the terminals. All chemical delivery personnel are required to be certified, with USP technicians fully trained on the safe handling and emergency response procedures specific to each chemical. USP technicians who oversee chemical deliveries, however, are not certified.

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## About USP Technologies

USP Technologies is the leading supplier of peroxygen-based technologies and services for environmental applications. We have been serving the water, wastewater and remediation markets for over 20 years and have offices and field service locations throughout North America. Our consultative approach to problem solving includes application assessment, technology selection and development of a tailored treatment approach. Our full service programs successfully integrate storage and dosing equipment systems, chemical supply, inventory and logistics management, and ongoing field and technical support. This approach provides cost-effective, "hands-off" solutions to our customers. USP Technologies also can provide access to experienced application partners for a turn-key program encompassing engineering, site characterization and technology selection, program implementation, execution and report generation.

## Getting Started

We look forward to supporting your treatment needs, whatever the scale of your requirements. To obtain a streamlined treatment solution tailored to your specific project, give us a call at (877) 346-4262.

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