



***RECENT RESULTS ENGINEERING  
EXPERIENCE IN  
WATER & WASTEWATER APPLICATIONS***

***Project:*** \$ 1 Million PLC & SCADA upgrade for entire Water Treatment Plant

***Engineering:*** Retrofit the existing Controls and SCADA for fourteen water processing applications with minimal downtime. Design, Program, Test and commission fourteen PLC systems, replace fiber and Cat5 network switches, new redundant SCADA servers, new SCADA view nodes, integrate Win 911 alarm software, integrate HVAC and Power monitoring software SCADA interface. Convert all existing SCADA screens to Intellution's IFix 4.0 format.

***Equipment:*** Intellution IFix SCADA, Win 911, Dell Servers and Workstations, Ntron Network Switches, XL Reporter, SLC 5/05 PLC platform, PanelView Plus.

***Location:*** Portland, Maine

\*\*\*

***Project:*** Water System SCADA Upgrade

***Engineering:*** Specify and provide three new computers, upgrade operating system from MS NT4.0 to MS Windows XP Pro, upgrade 6 year old Intellution SCADA software, RSLinx interface software, and Win 911 alarm software. All existing SCADA screens were converted to Intellution's IFix 3.5 format. Maintained compatibility with existing RACO Dialer and PC Anywhere software.

***Equipment:*** Intellution IFix SCADA, Win 911, RACO Dialer, PC Anywhere and Dell Computers

***Location:*** Kittery, Maine

***High Technology Solutions for Industrial Control and Information Systems***

P.O. Box 357 ♦ Saco, Maine 04072 ☎ (207) 282-2428 ♦ Fax (207) 282-0463  
339 Parsons Road ♦ South Paris, Maine 04281 ☎ (207) 743-0278 ♦ Fax (207) 282-0463  
691 Hogan Road ♦ Bangor, Maine 04401 ☎ (207) 992-2496 ♦ Fax (207) 992-2497



***RECENT RESULTS ENGINEERING  
EXPERIENCE IN  
WATER & WASTEWATER APPLICATIONS***

***Project:*** Wastewater Disinfection Controls Upgrade

***Engineering:*** Software Design and Programming of the PLC, PanelView and Intellution SCADA screens to provide process control of the Sodium Bisulfite Dechlorination and Sodium Hypochlorite Chlorination per the Water District SCADA standards. The software addressed chemical dispersion methods and modes including random rain driven Bypass events, Pump lead lag strategies, level control, alarm handling and data logging, totalization and trending. The system was statically and dynamically tested prior to commissioning.

***Equipment:*** SLC 5/05 PLC, PanelView Plus 1000 OIT, Intellution IFix SCADA

***Location:*** Portland, Maine

\*\*\*

***Project:*** Water Disinfection Controls Upgrade

***Engineering:*** Software Design and Programming of the PLC, PanelView and Intellution SCADA screens to provide process control of the Sodium Hypochlorite Chlorination per the Water District SCADA standards. The software addressed chemical dispersion methods and modes, Pump lead lag strategies, level control, alarm handling and data logging, totalization and trending. The system was statically and dynamically tested prior to commissioning.

***Equipment:*** SLC 5/05 PLC, PanelView Plus 1000 OIT, Intellution IFix SCADA

***Location:*** Standish, Maine

***High Technology Solutions for Industrial Control and Information Systems***

P.O. Box 357 ♦ Saco, Maine 04072 ☎ (207) 282-2428 ♦ Fax (207) 282-0463  
339 Parsons Road ♦ South Paris, Maine 04281 ☎ (207) 743-0278 ♦ Fax (207) 282-0463  
691 Hogan Road ♦ Bangor, Maine 04401 ☎ (207) 992-2496 ♦ Fax (207) 992-2497



***RECENT RESULTS ENGINEERING  
EXPERIENCE IN  
WATER & WASTEWATER APPLICATIONS***

- Project:*** Industrial Wastewater Treatment Plant Control Upgrade
- Engineering:*** Develop control system drawings and program control software (PLC and SCADA) which will provide automated pH control, monitoring (adjustable alarms and operating range), lime feed system control software for 1st stage pH adjustment, caustic feed control software for 2nd stage pH adjustment tank, control system for polymer feed, effluent filter alarm (pressure) and effluent flow, pH, and turbidity monitoring.
- Equipment:*** SCADA Computer, PLC
- Location:*** Saco, Maine

\*\*\*

- Project:*** Landfill Leachate Management Control System
- Engineering:*** Designed the pump station and tank farm control system, programmed the Pump station control and coordinated the sequencing and interlocking between pump stations. Configured the operator screens and environmental reporting on the master RSVIEW SCADA station.
- Equipment:*** Twelve PLC based Pump Stations and One Tank Farm all linked by Radio Modem to a Master RSVIEW SCADA node.
- Location:*** Norridgewock, Maine

***High Technology Solutions for Industrial Control and Information Systems***

P.O. Box 357 ♦ Saco, Maine 04072 ☎ (207) 282-2428 ♦ Fax (207) 282-0463  
339 Parsons Road ♦ South Paris, Maine 04281 ☎ (207) 743-0278 ♦ Fax (207) 282-0463  
691 Hogan Road ♦ Bangor, Maine 04401 ☎ (207) 992-2496 ♦ Fax (207) 992-2497



***RECENT RESULTS ENGINEERING  
EXPERIENCE IN  
WATER & WASTEWATER APPLICATIONS***

***Project:*** Migrated Single PLC processor system with several Remote I/O racks to a distributed control architecture with Five PLC processors for Paper Mill Wastewater Treatment Plant Control System

***Engineering:*** Application software was rewritten for distributed control.

***Equipment:*** Each PLC processor linked by Radio Modem to a Master RSView SCADA node.

***Location:*** Groveton, NH

\*\*\*

***Project:*** Retrofitted Freshwater control system at Pulp & Paper Mill in Northern Maine. 25 million gallons a day capacity. Inclined screens, pressure filters, and sand filters.

***Engineering:*** Electrical controls design, PLC programming and graphical operator interface configuration. Installation supervision and commissioning.

***Equipment:*** Allen Bradley PLC-5 based system with PanelView Operator Interface

***Location:*** Madawaska, Maine

\*\*\*

***Project:*** Local Water District support

***Engineering:*** Programming and Documentation support

***Equipment:*** ONSpec on OS2 operating system

***Location:*** Brewer, Maine

***High Technology Solutions for Industrial Control and Information Systems***

P.O. Box 357 ♦ Saco, Maine 04072 ☎ (207) 282-2428 ♦ Fax (207) 282-0463  
339 Parsons Road ♦ South Paris, Maine 04281 ☎ (207) 743-0278 ♦ Fax (207) 282-0463  
691 Hogan Road ♦ Bangor, Maine 04401 ☎ (207) 992-2496 ♦ Fax (207) 992-2497



***RECENT RESULTS ENGINEERING  
EXPERIENCE IN  
WATER & WASTEWATER APPLICATIONS***

- Project:*** Local Water District support.
- Engineering:*** Most recent project was to move ozone and chlorine safety interlocks and alarming from Wonderware to SLC-500 with an accompanying Wonderware Screen.
- Equipment:*** ProSoft/Aquatrol/and Wonderware. ProSoft handles telemetry.
- Location:*** Bangor, Maine

***High Technology Solutions for Industrial Control and Information Systems***

P.O. Box 357 ♦ Saco, Maine 04072 ☎ (207) 282-2428 ♦ Fax (207) 282-0463  
339 Parsons Road ♦ South Paris, Maine 04281 ☎ (207) 743-0278 ♦ Fax (207) 282-0463  
691 Hogan Road ♦ Bangor, Maine 04401 ☎ (207) 992-2496 ♦ Fax (207) 992-2497