

**RECENTLY GRANTED** >>>>>>**AUTOMATION**

- ✓ Build, Design, Implement and Commission a Rockwell ControlLogix Waste Solvent system in Utilities group at a Pharma client.
- ✓ DeltaV Modifications, related instrumentation installation and integration at a Biopharmaceutical facility.
- ✓ Phase 3 system improvements on Rockwell ControlLogix systems for Central Indiana WWTP facility.
- ✓ Fabrication of Rockwell ControlLogix control panel for new facility's Utility group at major Pharma client.
- ✓ Automation Support for ControlLogix/RSView/Batch programming and start-up for a new product at a major Biotechnology Bulk Manufacturing Facility.
- ✓ Procurement, Installation, and Startup of Rockwell Automation Variable Frequency Drives as a migration project at a Biopharmaceutical facility.

**VALIDATION (CSV/C&Q)**

- ✓ Data Integrity Gap Assessment and Reporting for manufacturing and laboratory computer related systems at a major Biopharmaceutical client.
- ✓ C&Q Standards development and implementation for Device Manufacturing department at major Pharma client.
- ✓ Quality Investigation Root-Cause Analysis support for QA and Automation groups at major Pharma client.
- ✓ Remote C&Q and Documentation Support for Energy Savings Project at major Pharma client.
- ✓ Cleaning Validation, Process Validation, and Lab Equipment Qualification support for Pharma manufacturer in Northern Indiana.
- ✓ C&Q services of OEM equipment both on and off-site for Contract Manufacturer.
- ✓ Complete Validation Solution for a Constant Head Pressure System at a Biopharmaceutical facility.
- ✓ Validation Support for a Data Integrity Project at a Biotechnology plant.

**OUTSOURCING**

- ✓ Manage all Validation and Documentation activities as part of an Outsourced contract for an entire department at major Pharma client.

**INSTRUMENTATION**

- ✓ Procurement, Receipt Verification and Validation Documentation (ISP) Services for over 1,200 instruments for a major Biopharmaceutical client expansion.
- ✓ Installation, Wiring and configuration of new field instrumentation within a DeltaV system through Foundation Fieldbus, DeviceNet, and HART.
- ✓ Installation and start-up of five (5) VFD for an Energy Savings project at Fermentation process within Biotech site

**RECENTLY COMPLETED** >>>>>>**AUTOMATION**

- ✓ OSI Pi tag configuration updates and management for BMS system at major Pharma client.
- ✓ Design and build Redundant Data Concentrator Control System using Rockwell Technology at Pharm Client.
- ✓ Fabrication of Rockwell ControlLogix control panel for Steam System in Utilities group at major Pharma client.
- ✓ Business Dashboard to present process KPI's using OSI Pi, Visual Basic and other visualization tech.
- ✓ Upgrade Wonderware Visualization System and virtualization of standalone computer at pharma client.
- ✓ Fabrication of Rockwell ControlLogix control panel for Waste Recap System in Utilities group at major Pharma client.

**VALIDATION (CSV/C&Q)**

- ✓ Resident CQV services supporting lab equipment, building management, and utility systems at startup Biosimilar client.

**TURNKEY**

- ✓ Automatization of the new Cooling Tower Systems using Rockwell Technology at Pharma Client.
- ✓ New Transmitters Integration to existing DeltaV System at Bio Client.

**GENERAL NEWS** >>>>>>

- ✓ PACIV Ireland presented at an ISA Tech Talk Event in Cork, Ireland on February, the benefits of its Instrumentation Receipt Verification Process ("ISP").
- ✓ PACIV-USA and PACIV-PR to attend the Annual OSI Pi User Conference in San Francisco, CA.
- ✓ Milagros Deliz, P.E., previous "BD Manager" in PR office, has been named "Outsourcing Services Manager"
- ✓ Gary Rodriguez, P.E. previously with Rockwell and Warren del Caribe, is now our BD Manager in Puerto Rico
- ✓ PACIV's President & CEO, Jorge L. Rodriguez, to speak at this years ISA FPID Symposium in Boston, Massachusetts.

