

# Automation & Control Systems Validation

Today's regulated facilities require the technology and implementation expertise to integrate various applications and functions into a single, cost effective automation strategy. This strategy varies for all facilities and clients depending on their unique production requirements. At Sequence, we work with our clients to understand the unique requirements of their facility in order to develop a validation approach to qualify their specific automation and control systems. Whether you are installing a DCS (Distributed Control System) to control a suite of bioreactors or implementing a BMS (Building Management System) to monitor your facilities mechanical and electrical equipment, our consultants have the expertise and experience to execute an effective and successful validation strategy.

The Sequence Team differentiates the quality and value of our services by staying current with today's best practices and international regulatory expectations for commissioning, qualification, and validation. The vast experience of our personnel provides great perspective and insight into strategies for implementing practical and compliant solutions pertaining to commissioning and integration of control systems, facility qualification, and utility qualification consistent with the evolving harmonized regulatory framework around risk-based and science-based approaches to regulatory compliance.

Sequence, Inc. stands ready to share our team's expertise in delivering cost-effective and practical compliance solutions to your organization. We will support the commissioning, qualification, and validation of your critical automation solutions while meeting aggressive deadlines to ensure quick time to market.

## SYSTEM TYPE PORTFOLIO:

- Distributed Control System (DCS)
- Programmable Logic Controllers (PLC)
- Programmable Automation Controller (PAC)
- Supervisory Control And Data Acquisition (SCADA)
- Process Analytical Technology (PAT)
- Recipe Management Systems (RMS)
- Manufacturing Execution System (MES)
- Building Management System (BMS)
- Human Machine Interface (HMI)
- Business Planning and Control System (BPCS)
- Electronic Batch Record System (EBR)
- Graphical User Interface (GUI)
- Safety and Interlock Mechanism

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### **AUTOMATION SYSTEMS VALIDATION EXPERIENCE:**

- Emerson DeltaV DCS
- D/3 DCS
- ABB Advant / MOD300 DCS
- Modicon PLC
- Allen-Bradley PLC
- Andover BMS
- Rockwell RSView
- Rockwell RSLogix
- Rockwell RS Linx
- Rockwell RSView32
- ProWORX
- Wonderware MES
- Honeywell POMS
- Siemens BAS

### **DELIVERABLES INCLUDE BUT ARE NOT LIMITED TO:**

- User Requirements Specification
- Factory Acceptance Testing
- Site Acceptance Testing
- Commissioning Plans & Protocols
- Validation Master Plan
- Functional Requirements Specification
- Design Specification
- Risk Assessment
- Component Impact Assessments
- Installation Qualification
- Operational Qualification
- Performance Qualification
- Traceability Matrix
- Final Reports
- Validation Summary
- Change Control
- Auditing
- Compliance Remediation
- General Validation Consulting

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