



▶ VALIDATION STRATEGY

▶ IQ / OQ PROTOCOLS

▶ RISK ASSESSMENT



▶ 21 CFR PART 11 ASSESSMENTS

▶ USER / FUNCTIONAL REQUIREMENT SPECIFICATION

▶ TRACEABILITY MATRIX



▶ SOFTWARE / SYSTEM DESIGN SPECIFICATION

▶ SUMMARY REPORTS

○ EFFECTIVE

○ EFFICIENT

○ RELIABLE

Compliance AND *Validation*

Only through efficient remediation can manufacturers meet the challenges of stringent and continually evolving regulatory requirements.

Helping plants achieve their regulatory goals

Our protocols thoroughly challenge the installation, calibration, operation and performance of the system. With our two+ decades of control system expertise we add a practical approach to any validation project.

When CPS executes a validation study on a non-CPS control system, we typically identify opportunities for improvements to the control system performance. Involve CPS validation services at project conception and we offer implementation recommendations to make compliance easier.

Computer System Validation, Process Validation and Equipment Qualification, Automation and Controls Validation, Documentation Control and Validation, Laboratory Systems Validation.

To support system life cycle activities, CPS provides change control, maintenance and periodic review services after the final validation report is approved to maintain the validated state of the system.

CPS has authored and executed protocols for Plasma Fractionation, Coating Pans, S88 Batch Control Systems, cGMP HVAC Systems, Fluid Bed Dryers, Precipitation Systems, Sterilization Laboratory Equipment, and retrospective validation of computer control systems by others.



21 CFR Part 11

CPS is intimately familiar with the current compliance impact from 21 CFR Part 11 to system design, implementation and validation. 21 CFR Part 11 assessments are conducted by a combination of our integration engineers and validation specialists. CPS makes Part 11 remediation solutions reasonable, timely and cost effective.

Our strength comes from balancing technology know-how with regulatory know-how.



Industrial automation solutions, systems and services since 1979

For more than two decades, Control & Power Systems, Inc. (CPS) has been a full-service control systems integration company. The Company offers a unique blend of computer, electrical, electronic, instrumentation, validation and mechanical know-

how plus on-site panel and skid fabrication. The custom systems that CPS programs, builds, integrates and deploys center mainly on process control, material handling, manufacturing execution and data management applications.

**FLEXIBLE
CAPABLE
RELIABLE
PROVEN**



INTEGRATION SERVICES

PLC Systems

Every Major Brand

SCADA Software

Every Major Brand

Data Bases

Every Major Brand

Networking

DH+, MB+, Profibus,

DeviceNet, RIO,

Fiber Optic, Ethernet

WEB Enabled

Data Acquisition



FABRICATION SERVICES

Custom Skid Fabrication

Control Panel Fabrication

UL, CUL, CE Certification

Intrinsically Safe Wiring Practices

Explosion Proof Wiring Practices

Welding

Piping & Tubing

Painting

Pneumatic & Hydraulic Systems



ENGINEERING SERVICES

Functional Definition

Control Strategy Development

PLC Programming

MMI, SCADA Configuration

Instrumentation Specification

Hardware Specification

Mechanical Skid Design

CAD Drawings



QUALITY ASSURANCE

FDA Validation

IQ, OQ, PQ, Generation & Execution

Factory Acceptance Testing

Program Logic Functionality

System Performance Tests

Full Service Test Center

Electric, Hydraulic, Pneumatic

System Commissioning

Field Device & IO Verification



INSTRUMENTATION

Engineering

Specification & Selection

Installation

Mounting, Tubing, Wiring

Calibration

ISA Certification

NIST Traceable

Service Contracts



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At CPS we help companies navigate and harness the maze of options available within the rapidly advancing, multi-component, multi-platform, multi-vendor environment of industrial automation and provide competitive hardware and software solutions that meet their requirements, on-time and on-budget.