



COMPUTER-BASED PROCESS CONTROLS

CHEMISTRY SYSTEM UPGRADES

Nuclear, Power & Process Industries



Application of computer-based process controls for new systems and upgrades to existing water and waste treatment processes.

VALUE

- Expertise in water & waste processes
- Cost effective designs that meet specific requirements
- Customer service

EXPERIENCE

- Control system for new equipment and processes
- Upgrades to aging/obsolete PLC-based controls
- Replacement of antiquated electromechanical controls

SERVICES

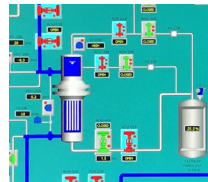
- Turnkey solutions - all design and development by Structural Integrity
- Control panel fabrication
- Benchtop Test system design and fabrication
- Factory acceptance/validation testing
- End-user training
- Plant start-up support

PROCESSES

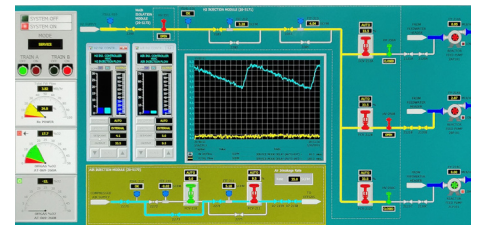
- Deep Bed Demineralizers
- Resin Cleaning and Regeneration Systems
- Filter Demineralizer Systems
- Chemical Feed Systems
- Filtration Systems



Benchtop Test System



HMI Backwash & Precoat



HWC System Diagram



Condensate System Diagram

SYSTEMS

- Integrated control system includes both a PLC (programmable logic controller) and a HMI (human-machine interface)
- For upgrades to existing controls, the PLC and HMI may be housed in an existing control panel if feasible
- Use of a remote I/O (Input/Output) panel allows system operations to be performed in an operator-friendly environment (e.g. low radiation dose area, etc.)



Main HMI Panel



Remote I/O Panel

- Redundant HMIs offer flexibility and reliability
- Custom-designed graphics meet plant specific requirements, standards and preferences

HARDWARE & SOFTWARE

- Hardware - Allen Bradley, Emerson
- Software - FactoryTalk®, Proficy®



info@structint.com

www.structint.com

1-877-4SI-POWER
1-877-474-7693

5215 Hellyer Avenue Suite 210
San Jose, CA 95138