



Structural Integrity
Associates, Inc.®

COMPUTER-BASED PROCESS CONTROLS

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



VALUE

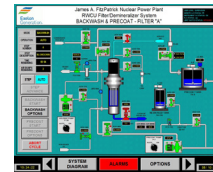
- Expertise in water & waste processes
- Cost effective designs that meet specific requirements
- Customer service

EXPERIENCE

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



Process Simulator Panel



HMI Backwash & Precoat

SERVICES

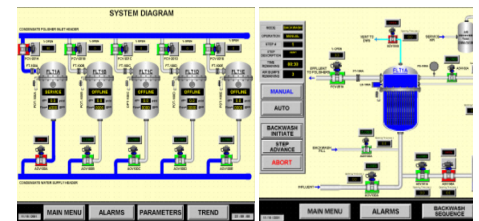
- Turnkey solutions - all design and development by Structural Integrity
- Control panel fabrication
- Simulator system design and fabrication
- Factory acceptance/validation testing
- End-user training
- Plant start-up support
- Ongoing maintenance support

PROCESSES

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

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.)



HMI System Diagram

HMI Backwash Diagram

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

HARDWARE & SOFTWARE

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



Main HMI Panel



Remote I/O Panel



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