CONTROL SYSTEMS

Automated Ingredient Systems Electrical engineering department utilizes the most advanced PLC's, computerization, and industrial software programs. Our controls systems offer a wide range of options including inventory management, production scheduling, historical trending analysis, and energy consumption management.

Constant interaction between AIS and your company throughout the engineering phase of the project assures attention to detail and quality of design that translates into efficient system operation on your plant floor.

Our electrical engineering department is also experienced in providing controls systems upgrades for existing systems with antiquated, or out of date controls. New controls systems are designed to incorporate all of the functionality of the original system while adding the increased features available with today's technology. All systems are designed to allow for future upgrades, as technology advances, or customers needs increase.

ENGINEERING CAPABILITIES

- Every Major PLC Manufacturer, we will use YOUR PLANT STANDARD.
- OI's, MMI's, HMI's, SCADA
- MS SQL Server & Oracle Database Design & Integration
- MS Visual Basic & HTML
- Barcode & Labeling
- Intranet Data Display
- Data Recording & Reporting

PROGRAMABLE LOGIC CONTROLLER

Allen-Bradley
Micrologix
1000,1200 and
1500
SLC 500 Series
PLC-5 Series
General Electric
Fanuc
90-30 Series
Honeywell
620 Series

Idec
Micro1 and Micro^3
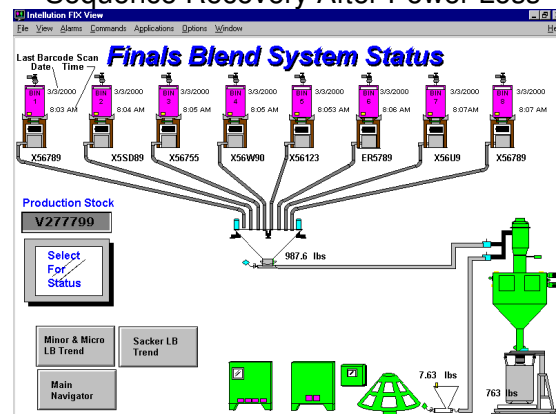FA2J Series
Modicon
984 Series
Siemens
Simatic 505 (TI)
S5 Series

DESIGN APPROACH

- Safety
- 24 Hour Production
- Custom Design based on YOUR Supervisory, Maintenance & Operator Personnel Input.
- Design with your Process Nomenclature
- Document & Submit All work for Review
- Startup Plan
- Complete Operations Simulation at Our Factory
- Schedule Review with Plant Personnel
- Backup Plan
- Informative Alarming for Troubleshooting
- Always Review the Latest Technology before picking Hardware-Software Solutions.
- Process Consistency
- Batch Status, EASY TO USE
- Sequence Recovery After Power Loss

PANEL FABRICATION CAPABILITIES

- In House Factory Shop
- NEC
- UL Label Offering
- Motor Starter / PLC / PC Enclosures
- Hazardous Environment Experience
- Complete Power UP & Simulation Test of all Control Panels before Shipment.

PANEL FABRICATION CAPABILITIES

- Air-conditioned Cabinet
- Voltage Regulation
- Clean Power Filters
- Finger Space
- 25% Spare Space
- Pre-wired, Numbered & Labeled Wiring

OPERATOR INTERFACE

Allen-Bradley
PanelView
CTC
Access4000
NIS
LCD Display with Touch Screen
OI Direct
OI Panel
Total Control Products
QuickPanel and QuickPanel Jr.
LCD Display with Touch Screen

COMMUNICATION PROTOCOLS

Allen-Bradley
Remote I/O
Data Highway
DeviceNet
Ethernet
General Electric
Genius Bus
Honeywell
DMCS
Modicon
Modbus/Modbus+

APPLICATION SOFTWARE

Allen-Bradley
RSView
RSLinx
Intellution
Fix
iFix (Dynamics)
Microsoft
SQL Server
Visual Basic
Wonderware
In Touch