



Electrical and Controls

ITAC's Electrical and Controls (E&C) department knows what it takes to help any business succeed. The dedicated staff of engineers and designers is well qualified in the realms of distribution, industrial process control, and automation. The multi-discipline project management approach that ITAC takes enables it to execute a project swiftly and efficiently.

ELECTRICAL AND CONTROLS EXPERTISE

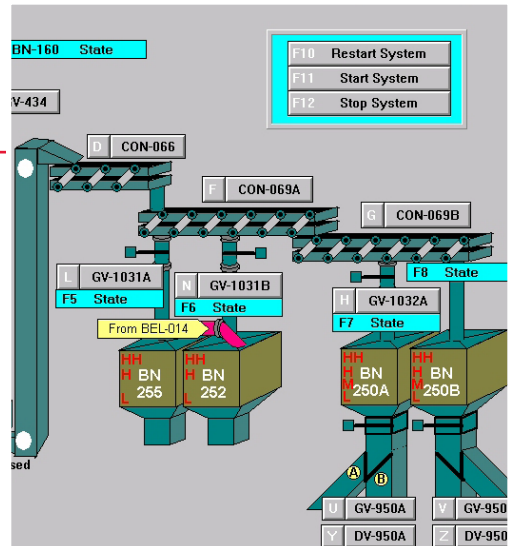
ITAC's staff of engineers and designers specialize in electrical systems, control systems, and software development to assist the manufacturing, chemical, and power generation industries. They employ AutoCAD, Microstation, and AutoPLANT design software in order to best serve their clients.

Electrical Engineering and Design

- Facility Electrical System Design (120V – 230kV)
- Three-Phase Power System Design and Analysis
- Load Flow Analysis
- Coordination Studies
- Arc Flash Hazard Analysis
- Ground Fault Analysis, Grounding System Studies, and Ground System Design
- Hazardous (Classified) Area Design
- Emergency/Standby Power
- UPS System Design
- Protective Relaying

Control Systems/Software Engineering

- PLC/DCS Configuration
- Data Acquisition System Configuration
- Hardware Design
- Software Design (Ladder, FB, STL)
- Network Technologies (Ethernet/IP, DeviceNet, Profibus, Modbus, etc.)
- SCADA/HMI Configuration
- Historian/Reporting
- Motion Control
- Instrumentation
- Safety/Emergency Stop Circuit Design
- S88 Batch Control
- Commissioning



RECENT ELECTRICAL AND CONTROLS PROJECTS

- Arc Flash Remediation (Multiple Power Stations)
- Cable Vault Replacement
- Constant Emissions Monitoring Upgrades
- 7200 HP Drive System
- 12.5 MW Variable Power Supply System
- High-Pressure Feed Water Heater Level Controls Upgrade
- Ethanol Plant Electrical System
- Distillation Column Instrumentation & Controls
- Precipitator PLC Replacement
- Plant-Wide Fault & Coordination Study
- Wood Pellet Plant Control System
- Tobacco Processing Batch Control System
- Batch Reporting
- Film Line Controls Upgrade